

# WORLD'S FINEST ELECTRONIC SURPLUS

95  
th  
ANNIVERSARY



947 1982

CATALOG WS-82  
MANY NEW ITEMS  
CHECK EVERY PAGE!

ORDERING  
FORMATION  
SEE PAGE 2

MINIMUM  
ORDER \$5.00

## Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.  
Lima, Ohio 45802

419/223-2196  
419/227-6573

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**100 WATT TRANSMATCH**  
ASSEMBLY with Johnson 229-201 10 uH roller inductor, 600 pf variable capacitor, and two banks of 5 -Centralab 850 100 pf HV capacitors. Inductor has vernier dial; also Hi-Lo antenna impedance switch and 0-500-1000pf loading capacitor switch for adding parallel capacitance. Two UG-58 "N" connectors on rear. 5 1/8x6 1/2, 7 lbs. #SP-XM-LPS used, \$45.

### 100 WATT TRANSMATCH

**ALLEN & BRADLEY VARIABLE CARBON LOAD RESISTOR,** 2.75 ohms 200 W maximum. Has divider terminal which can be placed anywhere among the 3/32" dia carbon plates to decrease resistance. 2-3/8" dia knob loosens and tightens plates. 0/ a 15 1/4x4 1/4x3 1/2, 8 lbs sh #5905-525-1721, NEW, \$24.95

### ISOLATION TRANSFORMER



Mounted on board with AC socket, fusholders for secondaries, and diagram. Xformer size: 5 1/4x6 1/4, 20 lbs sh. #97513, NEW \$14.95 2/\$25.

### RADIO COMPASS RECEIVER

**R-836/ARN-59 LF RECEIVER,** compact unit covers 190 to 1750 KHz in bands 190-400, 400-840, and 840-1750 KHz. Designed to replace ARN-6 system and function as radio compass and direction finder receiver. Control box not available but can be tuned manually using MC-215 spline and/or spin knob. 142.5 KHz IF; has sub-mini tubes 2/5718, 5896, 5/5899, 3/5902, 2/5021, and 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used as automatic direction finder. Voltages originally supplied by DY-107 dynamotor which is not available. 4 1/2x4 1/2x10 1/2, 9 lbs. Used \$29.95 OPERATOR'S MANUAL, \$3. SCHEMATIC, \$2 w/ set. MC-215 SPLINE, 6', \$1.50; SPIN KNOB, \$2. ID-637/ARN 3" dia COMPASS INDICATOR, \$8 w/ set AC POWER SUPPLY w/ speaker for R-836, our construction; 14 lbs sh, \$45.00

**AT-382 LOOP ANTENNA** for receivers in the 190-1500 KHz range such R-23/ARC-5, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 spline and spin knob. Has BNC connection for RF. 14x9x4, 10 lbs sh wt. AT-382-1-10, unused \$12.95

### BROADCAST & SHORTWAVE



**R-892/URR-44 RECEIVER,** covers broadcast and shortwave in bands: 0.54-1.6, 1.6-3.45, 3.45-8.6, and 8.6-18.6 Mhz. 455 KHz I.F.; has built-in 4" speaker; controls for Monitor and AF levels. Fideli-ohm phone jack. Type N or lug antenna connections. With tubes 6BA7 2/6BA6, 5Y3, 3/6C4, 5670, and 2/5686. Requires 105/115/125 VAC 50-60 Hz. 18x11x16, 72 lbs sh. Used, checked, \$135.00

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# FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802  
TELEPHONE: AREA CODE 419 227-6573



## SHUNT

50 MV. 15 AMP  
SIZE: 2x1 1/2 x 1/2  
6625-810-6742  
UNUSED \$2.50

FS-50 UA w/  
mirrored  
scale, zero  
adj. Scale:  
4.0-20.0 OHMS  
% HEMOGLOBIN.  
Mount on panel  
front or  
behind. Fits 2 1/2" dia. hole.  
5 1/2 x 6 1/2; Beads mfg. \$7.95

CALIBROCHEM me-  
ters, FS-50 UA  
2-3/8" square.  
Used, \$4.95  
#200037, 0-150  
-350% GLUCOSE  
scale.  
#200039, 0-.3% BLOOD ALCHL.  
#200056, 4-24% HEMOGLOBIN

## TUBE TEST

REPLACEMENT ME-  
TERS f/MERCURY  
tube checkers.  
Bad? - Good  
scale; can be  
changed.

#990 FS-1 ma 2x2 1/2 \$3.00  
#890 FS-1 ma 3x3 1/2 4.00  
#3958 FS-1 ma Fan  
type 3 1/2 x 3 1/2 4.25  
#1000 FS-1 ma 4x4 1/2 5.00  
#2000 FS-1 MA 0-8000-25000  
GM scales; 4x4 1/2 \$6.00

CB METERS  
clear  
plastic  
w/black  
scales.  
Scales are not linear.  
Size: 1-9/16" sq. NEW \$2 ea  
#PWR/CBM, FS-250 ua (100 ua  
center); 1-2-3-5-cal sc.  
#PWR-S/CBM, as above but  
0-5 pwrt, 1-9 S-units.  
#S-PWR/CBM, FS-200 ua (75  
us ctr); 1-9 "S", 1-5 pwrt.

CLEAR PLASTIC  
METERS, 2-3/8"  
sq. fit 2-1/8"  
dia. hole. EMI  
mfg. Unused.  
#D1145-2, 0-5-  
50 MADC, FS-5 made, \$4.95  
#D1189-1, 0-50-500 MADC  
scale, FS-50 made, \$4.95  
#D630, 0-3 VDC, \$4.95

MICROMHOS DYNAMIC  
MUTUAL CONDUCTANCE  
USED IN 1-177 TUBE  
CHECKER BASIC 0-1.4  
MA. HICKOK #547A  
STK# SF1350 \$4.95

TV-2 REPLACEMENT  
METER, 0-250  
SCREEN VOLTS,  
FS-1 MA. 2 1/2" RD.  
SEALED. NEW \$5.95

## DECIBELS

-10-0-64 DB 6MW 600 OHMS  
2 1/2" RD. WEST.2837 \$4.95

-12-0-84 DB 100 UAFS 3 1/2" RD  
BLK. RUGG. WAC4586 N \$7.95

-12-0-48 DB, FS-100 ua, 3 1/2"  
rd. blk. face. Used, \$5.95

-20-0-34 DB FS-199 MUA 2 1/2" R  
#GA50934 USED \$4.95

OTHER VALUES IN STOCK, WRITE

POWER SET +6 to 0 TO-3  
2 1/2" RD. FS-200 UA, WADLINE  
1496/400 RUGG/SEAL U \$3.95

MULTIMETERS  
by Modutec.  
5x4, zero  
adj, mirrored  
scale.  
Fits 2-5/8"  
dia. hole.

#841974, 0-10 VDC-AC rms-UA  
DC, 0-28 VAC p-p, OHMS.  
FS=100 uadc, new, \$7.95  
#821155, 0-100 VDC, 0-75-  
150 MADC; FS=100 uadc. Not  
mirrored; 3x2 1/2. Fits 2-1/8  
dia. hole. Unused, \$5.95

DUAL SCALE METER  
0-1 MA MOVEMENT  
TWO MECHANICALLY  
SWITCHED SCALES,  
0-25, 0-125. FOR  
BEHIND PANEL MTG.  
CAN BE ILLUMINATED  
SHAFT EXTENDS 3/8" FRONT AND  
REAR. 2 1/2" FACE, 2 1/2x3 1/2" OVE  
ALL. UNUSED \$4.95

ROENTGENS  
PER HOUR METER  
50 MICRAMPERE  
D.C FULL SCALE  
3 1/2" RUGGEDIZED  
REMOVABLE  
PLASTIC LENSE,  
BLACK FACE.  
TOP SCALE 0-500, LOWER 0-10  
#300-10764 UNUSED \$3.95

BALLENTINE  
V.T.V.M.  
METER  
ONLY  
AC VOLTS  
1-10  
DECIBELS  
0-20  
WESTON 643  
4 1/2" OR EQ.  
MFG. PT. NO. 205007 NEW  
Stk#6625-557-0899 \$8.95

OUTPUT METER  
FOR TS-497B AND  
TS-497C SIGNAL  
GENERATORS.  
300-0-300 DC

MICROAMPS, 3 1/2" RD.  
MARION HS3, #5705 NEW \$7.95

DC VOLTMETER 3  
IN. Sq. No SCALE  
COLORED SEGMENT  
SIMPSON MFG. NEW  
50 VDC #1913 \$6  
25 VDC #1906 \$6

\*\*\*\*\*  
REPLACEMENT METERS, good  
meters removed f/equipment.  
TS-352/ME-9 4 1/2" rd., \$15.00  
ME-26D, 4 1/2" rd., \$15.00  
ME-81/USM-34, unused, \$12.  
TV-7 tube test, 3 1/2" rd. \$12  
RT-66-67-68 transmitters 1 1/2" \$8

GENERAL ELECTRIC  
AD-6 PANEL METER  
0-300 VAC 25-125  
Hz, high accuracy  
for lab use.  
Metal case 5 1/2 x  
4 1/2, 6 lbs sh.  
Unused, \$19.95

RUNNING TIME  
METER, 3 1/2" rd,  
5-place; 115  
VAC 60 Hz.  
#TRIM-WRT-1,  
Used, \$9.95

LP-GAS METER, 0-1  
VDC full scale.  
Mounts in 2" dia.  
hole. Chrome  
finish #48560-2,  
\$1.50 ea.

STORE HOURS  
9 A.M. to 5:30 P.M.  
MONDAY THRU FRIDAY  
9 A.M. TO 1 P.M. SATURDAY

## TERMS

PRICES NET, F.O.B. LIMA, OHIO  
SEND MONEY ORDER, CERTI-  
FIED CHECK, VISA, or  
MASTERCARD with PURCHASE  
ORDER for IMMEDIATE SER-  
VICE.

We reserve the right to hold an  
order accompanied by personal  
or company check until after  
check clears the banks.

MINIMUM ORDER \$5.00  
Orders less than \$5.00  
ADD \$1.00 HANDLING CHARGE.

Include sufficient money for  
shipping charges. (UNUSED  
PAYMENTS RETURNED AT  
ONCE.) Otherwise we will send  
shipping charges collect.

C.O.D. ORDERS, SEND 50% of  
PURCHASE with ORDER. CASH  
BALANCE will be COLLECTED  
UPON DELIVERY.

When writing for information  
PLEASE state what specific  
information you desire.

## DESCRIPTIONS

ALL MATERIAL OFFERED IN  
THIS CATALOG IS IN "USED-  
COMPLETE" CONDITION, UN-  
LESS QUALIFIED AND/OR  
NOTED AS "RECONDITIONED,"  
"UNUSED," OR "NEW."

MERCHANDISE IS NOT OPER-  
ATIONALLY CHECKED UNLESS  
SPECIFIED AS "CHECKED."

EQUIPMENT DESCRIBED AS  
"REPARABLE"--MEANING "AB-  
LE TO BE REPAIRED"--IS  
ELECTRO-MECHANICALLY COM-  
plete, BUT REQUIRES SOME  
TROUBLESHOOTING BY THE  
CUSTOMER.

## AC VOLTMETERS

0-3VAC 3 1/2" RD. SUB PANEL MTG  
1000 P/V 2F8003-11 NEW \$7.

0-8 VAC, 3 1/2" rd; various  
manufacturers, used \$6.95

0-10 VAC 2 1/2" rd. \$4.95  
3 1/2" rd or sq \$6.95 var.mfg.

0-30 VAC 3 1/2" rd. various  
mfg. unused \$6.95 used \$7

30-150 VAC 60 Hz, various  
mfg: 2 1/2" rd., used, \$6.95

0-300 VAC, 2 1/2" rd, used \$6.

0-100 VAC, 3 1/2" rd., Hickok  
Model 47M, used, \$5.95

0-15 VAC, 3 1/2" rd., various  
mfg., used, \$5.95

0-50 VAC, 1000A/v, 3 1/2" sq.  
WESTON 301, UNUSED, \$6.95

## AC AMMETERS

0-3 AMPS AC, scale not  
graduated; 3 1/2" rd, \$9.95

0-125 ACA FS-5 A for 400  
Hz; 3 1/2" rd. Hickok \$9.95

0-300 ACA FS-5A, 3 1/2" rd  
black face; used, \$8.95

## CURRENT TRANSFORMERS

for AC am-  
meters; unused.

#7150, ratio 260:  
5 A, 40 VA 50-  
125 Hz; 1 1/4" dia, \$4.95

#3947, ratio 200:2.5 A 5VA  
400 Hz; 1 1/4" dia, \$2.95

## D.C. MILLIAMPS

FS-1 MADC, 0-100-500 scale  
2 1/2" rd sealed, used, \$4.95

0-3 MA-DC, 3 1/2" rd. sealed.  
#4081, unused, \$6.95

0-80 DCMA SCALE  
2 1/2" RD. RUGG. #2274 N \$4.95

0-100DCMA 100MA. MOVE.  
3 1/2"RD.RUGG. #4265 N \$6.95

0-150 DCMA SC. USED  
3 1/2" RD. STD.CAY22061 \$5.95

0-200 DCMA SC. 2 1/2" RD.USED  
#MR25200DCMA \$3.95

0-200 DCMA SC. 3 1/2" RD NEW  
GE-CG22063 \$5.95

0-20 MA-DC, 3 1/2" rd. Various  
mfg. Used, \$5.50 Unused \$7.

0-500 MADC, 3 1/2" sq. Simpson  
Used, ptr. tip bent, \$4.95

0-15-300 MA-DC, FS-15 made,  
3 1/2" rd. Various mfg. \$5.95

1-0-1 MADC, 2 1/2" rd sealed;  
various mfg., used, \$5.95

0-50 MADC, 3 1/2" rd., various  
mfg., used, \$6.95

100-0-100 MA DC, 3 1/2" rd  
Simpson; NEW, \$5.95

## D.C. MICROAMPS

0-200 UADC, 3 1/2" rd. sealed;  
Var. mfg. #3981, new, \$3.95

0-200 UADC and -8-0-+6 DB,  
2 1/2" rd. sealed, new, \$4.95

0-500 UADC, 2 1/2" rd., Var.  
mfg. Used, \$4.95

500-0-500 UA-DC, 3 1/2" rd.,  
various mfg., unused \$6.95

FS-20 UA DC, 0-2 ma indi-  
cated; 3 1/2" rd, \$6.95

50 UA MOVEMENT,SCALE -30,  
0,150,POINTER AT ZERO, SEAL  
ED,2RD USED TRC30150 \$4

50 UA MOVE, SCALE 0-100 %  
MOD/PEAK VOLTS. SEALED  
2 1/2 RD USED TRC10050 \$4.00

FS-50 UA DC, 0-50 ua & 250  
ma scale; 3 1/2" sq. NEW \$7.

CLEAR PLASTIC  
METER WITH non-linear  
SWR and 0-20 W  
scales; 2-3/8" sq face f/2" dia  
hole. #SWR-020, NEW \$4.95

FAN-SHAPE ME-  
TERS, plastic w/  
zero adj. 3" top  
2 1/2" bottom; 3" H.  
Fits 2" dia. hole.  
EMI mfg. Unused.

#EMI-200UA, 0-50-  
150 VDC, FS-200 ua, \$4.95

#EMI-5VDC, 0-5 VDC, \$5.95

#EMI-25VAC, 0-25-250 VAC  
scale; FS-25 VAC, \$5.95

#EMI-FS-50MA, 0-500 MADC  
scale; FS-50 made, \$5.95

30-0-30 ADC AUTOMOTIVE-  
style; 2 1/2" dia, NEW \$3.95

BATTERY CHARGE, FS-10 ampera-  
red line 6 A; 2 1/2" rd, Ban-  
wood-Linze mfg. Unused \$4.

SMALL METERS 1 1/2"  
square; sealed \$6

#20UAl0, 0-20 UA  
x10; FS-200 ua

#6719; -20-0--20

scale; FS-1 made, Macline.

#0728, 0-10, FS-50 mv; blk

face, Weston 151. Unused.

#7963; 0-10 scale, FS-1 ma,

1 1/2" dia., Ideal S-100.

## D.C. VOLTMETERS

0-50 VDC EDGEWISE; 2 1/2"  
X 1 1/2" D. HONEYWELL, NEW, \$8.

0-15-600 VDC, 2 1/2" rd black  
face; w/mult. code-Used \$6.

0-1 VDC 10KV/V, 2 1/2" rd  
sealed; used, \$5.95

0-5 VDC, 3 1/2" rd., various  
mfg., used, \$6.95

0-80 VDC 3 1/2" rd; various  
mfg., unused, \$6.95

0-100voc sc. 2 1/2" RD.RUGGED  
#9545 NEW \$5.95

0-750 VDC, 3 1/2" sq Simpson;  
used, \$5.95

0-200 VDC, 3 1/2" rd. sealed;  
various mfg. Used, \$6.95

0-300 VDC, 2 1/2" round; vari-  
ous mfg. Unused \$5.95

0-500vdc sc. 3" sq.  
#231-1624 USED \$5.95

0-20 KV, FS-1 ma dc; 3 1/2"  
rd sealed; unused, \$6.95

KILOVOLTS DC, FS-1 MA:

0-1.5 KVDC 3 1/2" rd. Used \$6.

0-4 KVDC, 3 1/2" rd. Unused \$7.

OTHER VALUES IN STOCK, WRITE

## R.F. AMMETERS

0-5 Ant-Curr w/trans coil,  
2 1/2" rd M101/ART-13 used \$9.

0-15 RFA, 3" sq. FS-1 ma;  
Simpson 271, used, \$9.95

0-15 RF AMMETER, 3 1/2" rd;  
various mfg. Used, \$16.95

4"X3" METERS  
FS-100 VDC, 0-  
100-500 scale;  
#100V-TV13, \$9.

FS-50 UA, 0-5-  
100 sc; #50UA-TV-13, \$9.95

## AC FREQUENCY

### METER

48-52 and 58-  
62 Hz, 100-  
150 VAC, ten  
reeds. 3 1/2"  
rd sealed; 2 lbs.  
#974-9354, unused, \$27.95

## DC AMMETERS

0-1.5 AMPS DC, 1 1/2" sq;  
Rowan mfg., used, \$7.95

25-0-25 ADC, 3 1/2" rd Simp-  
son; unused, \$9.95

0-2 ADC, 3 1/2" rd., Westing-  
house NX-35, used, \$8.95

DC AMMETERS, FS-50 MV:  
0-200, 2 1/2" rd, new, \$6.95  
0-1500 3 1/2" rd, used \$7.95

30-0-30 ADC AUTOMOTIVE-  
style; 2 1/2" dia, NEW \$3.95

BATTERY CHARGE, FS-10 ampera-  
red line 6 A; 2 1/2" rd, Ban-  
wood-Linze mfg. Unused \$4.

## BIG LOOK

0-20 DCA SCALE  
50 MV 3 1/2" N \$8.

0-50 DCA scale  
50 mv 3 1/2" \$10.

## 400 W AM TRANSMITTER



T-368/URT TRANSMITTER, 1.5 to 20 Mhz @ 450 watts CW, 400 watts AM. Uses master oscillator, frequency multiplier, intermediate power amp, and final power amp. Also 4-400A tube in the P-A, two 4-125's in the modulator, 1500 pf and 300 pf 10 KV vacuum variable capacitors in P-A.

Input signal levels: 3-5 volts FSK, 30 V max external excitation. Input impedance: 56 ohms FSK, 1000 ohms external. Requires 115 VAC 50-60 Hz 1570 W (CW) or 2200 W (AM). 41x32 x31, 650 lbs net. Sh wt: 940 lbs in wood crate as received from government. Used-good condition but not checked, \$495.00 Maintenance manual, partial repro, \$15.00

BC-939/TN-339 ANTENNA TUNER as used with T-368 or BC-610 transmitters; see page 25 for more info. Gov't reconditioned, \$100.00

## R-174/GRR RECEIVER

R-174/GRR-5 RECEIVER, 1.5 to 18 Mhz AM-CW in four bands continuously tuned or ten preset channels; 455 KHz I-F and 200 KHz crystal calibrator. Requires 90 VDC and 1.5 VDC which was originally supplied by PP-308 power supply (not available). Has 8 or 500 ohm output, BFO, and tubes 3V4, 3/LR5, 3/11A, and 1U5. As shown; no outer case. 5x12x8, 23 lbs sh. Used, \$18.95 115 VAC SUPPLY w/speaker (our construct) \$30 11-pin POWER/AUDIO PLUG, \$3 w/set purchase. AN/GRR-5 MANUAL for R-174, \$7.50

## DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

40-8 8" x 17" PLEXIGLASS SHEETS, 1/8"th Specify SMOKED, \$1.25

41-8 LOUD BUZZER-HORN as used NEW!! in smoke alarms; 2" dia x 1". 6 VDC, \$1.25 ea. 12 VDC \$1.35 ea.

9 RECEIVER-TRANSMITTER CHASSIS, solid-state, broadcast band. \$2.00

10 SENTRY ALARM; buzzes when pin pulled. 2x5x12, 9v. \$1 3/\$2.

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for \$1.00

25-77 MOBILE RADIO PLATE w/switch light, jack, 6' 10-cond. cable. Plate 3x3. \$1.00

29-78 LEATHERETTE INSTRUMENT CASE, 8x2x14, two sections. \$1.50 2/\$2.50

30 MIXED HARDWARE: screws, nuts, washers removed f/equip. Usable; 3 lbs. \$1.00

42-82 RUBBER EQUIPMENT FEET 1-1/8" dia rubber with 1" L #4x20 bolt; w/o nut. 8/\$2.00

LEVEL METER, FS=150 UA, 3/8x7/8 face; o/a 1x1x1. \$1.00 3/\$2.00

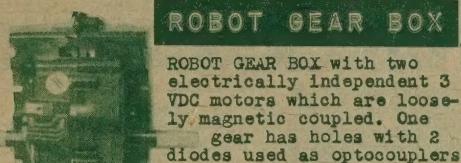
38-79 SPEAKER, 3" dia. 8 , 1 watt. Sanpo SP024, new, \$1.00

## 'SPACE TOY' MODULE

SPACE WARRIOR MODULE, electronic toy with motor speed and shooting sound effects with flashing LED's. Firing of infrared LED is detected on aggressor module causing "hit" effects and an inactive period. Requires 9 VDC transistor battery. Sold AS-IS, may have cold solder joints or other problem. 6x2x1.2 2 lbs sh. #SPW-MOD, \$3.95 each; 2 for \$6.50 CIRCUIT BOARD only from above module, AS-IS; #SPW-PCB, \$2.50 each or 3 for \$6.00



## ROBOT GEAR BOX



ROBOT GEAR BOX with two electrically independent 3 VDC motors which are loosely magnetic coupled. One

gear has holes with 2 diodes used as optocouplers to sense rotational speed.

Has two 3/8" dia splined shafts (48 RPM @ 3 VDC). This plastic gear box could be used for light-duty robot, cart, or animation projects o/a 7x4x2, 2 lbs. #WD-4955-18, \$3.50 4/\$11

## EMERGENCY FLASHER

EMERGENCY LIGHT-FLASHER-CHARGER, plugs into car lighter with 14 feet of cable and provides bright clear flasher for emergencies or continuous lighting for repairs, map reading, etc. Also has provision for trickle

charging battery from another vehicle using an additional 3 ft cable connected to its lighter circuit. Has meter which indicates approximate charge time required. 6x4x3, 4 lbs sh. #EMERG-LFC, w/cables, NEW, \$5.00 LIGHTER CABLE, 14' as above, \$2.50; 30' \$1.

## PERFECTION

COMPUTER PERFECTION, four games to test memory skills: Countdown and Black Hole for one player, Brainbattle and Lightrace for two players. Each game has three skill levels. Also has test mode and "repeat" mode which re-runs the winning sequence of a game for the next game. Has TMS1100NLL chip, 10 LED's, sound element, and three slide switches. Uses 2/9 VDC transistor batteries (not included). 4x4x1, 1 lb. Board only as shown, w/instructions, \$4.50

## TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC p/o time-temp sign. 6x6x1, 1 lb. #ASI-CMC27, w/schematic \$5.50

TRIAC CONTROLLER BOARD w/ eight RCA 200 V 6 A triacs (TO-66), isolation/trigger transformer, shift register, and gates which control each triac. P/o time-temp sign. With schematic and 22-pin edge connector. 4x8x1, 2 lbs. #ASI-CMP107 \$5.95

LOGIC CARD p/o time-temp sign controller containing IC's 2/555, 74LS00, 2/74LS08, 5/74LS14, 74LS20, 6/74LS32, 2/74LS42 2/74LS93, 74LS123, 74LS237, 74LS367, 7404, 7417, and DS8830. With schematic. 9-3/8x5x1. 1 lbs sh. #ASI-503/00, \$3.95

## 14 TO 600 KHZ RECEIVER

11134/WRR-3 LOW-FREQUENCY RECEIVER, 14-600 KHz AM-CW-FS in five bands using mechanical digital tuning: 14-30 KHz (Band I), 30-63 (II), 63-133 (III), 133-283 (IV), and 283-600 KHz (V). Bands I and IV have 60 KHz 1st I-F; 200 KHz 2nd. Other bands single 200 KHz I-F. Calibrate points every 10 KHz. Output impedance: 600 ohms. Input: 50 ohms. Controls for BFO, broad-Sharp I-F and A-F selectivity, Antenna Compensator. With tubes 6AN5, 6AU6, 4/6C4, 3/5725, 5/5749, and 5751. Requires 115 VAC 50-60 Hz or 400 Hz. 8x17x16, 80 lbs sh wt. Used, checked, \$295. Manual, partial repro, \$15. Schematic \$3 w/set purchase

## HAMMARLUND SP-600

HAMMARLUND SP-600-JX RECEIVER, 0.54 to 54.0 MHz AM, CW, MCW; 455 KHz final I-F. Selectivity from 0.2 to 13.0 KHz in six steps plus crystal phasing control on three lowest steps. Frequency selection using VFO or six preset crystal channels. Also BFO, calibrated "S" meter, and AVC. Audio output impedance: 600 ohms. SO-239 connector for antenna; includes 20 tubes. 115/230 VAC 50-60 Hz required. 10x19x16, 76 lbs sh wt. Used-reparable, \$215. Checked, \$285. Manual for SP600-JX, partial repro, \$10.00 Cabinet for SP-600; 30 lbs, used, \$32.50

## R-388/UUR RECEIVER

R-388/UUR RECEIVER, 0.5 to 30.5 Mhz AM-CW in thirty bands, 1 Mhz per band. Wide 6" linear scale permits precise tuning in megacycles or kilocycles. Has five step crystal selectivity, calibrated "S" meter, and calibration points every 100 KHz. 500 KHz IF; bandwidth 0.2 to 6 KHz. Audio output: 1.5 watts into 4 or 600 ohms. 50 ohm antenna input impedance. Requires 115/230 VAC 50-60 Hz. 10x19x19 x13, 55 lbs sh wt. Used, repairable, \$325.00; Checked, \$400. Manual, partial repro, \$10.00

## 8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh parabolic surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 bandwidth. Vertical or horizontal polarization; 20 db major to minor lobe ratio. Distance from focal point to window of feedhorn: 36". Depth from surface perimeter to center: 16". Antenna is shipped in sections and includes mounting yoke and feedhorn. 600 lbs sh weight approx. Used, \$525.00

5DEP31 FLAT-FACE CATHODE RAY TUBE CRT 5 dia. Used in some Heath oscilloscopes; looks like substitute for SUP1 (needs wiring change). Typical voltages: -1400 V, 6.3 V fil., +150 VDC vertical plate, +180 VDC horiz-plate, W/diagram. 14x5x1, 5 lb 5DEP31, NEW \$22. 12-pin socket f/5DEP31 \$2.50

TELEPHONE TONE PAD

STROMBERG-CARLSON TONE KEY PAD, can be used for tone control, signaling, and experiments. Each key produces two tone output; characters 0 thru 9, \*, #. Requires 9-15 VDC; with hook-up info. 3-3/8x3x1. 2 lbs sh. #SC-55A3AF, PLN, \$8.95; 2 for \$16.

## BC & ARC COMMAND SETS

Even though they have been on the surplus market since the end of World War II, the Command Set Receivers and Transmitters are still popular with hams and experimenters. The series consists of either SCR-274N (BC-prefix) or AN/ARC-5 receivers (R-prefix) and transmitters (T-prefix).

As a group, the receivers cover 190 KHz to 9.1 Mhz and the transmitters 2.1 to 9.1 Mhz. Over the years many conversions have been written for the sets. However, the last comprehensive collection of such information, CQ Surplus Conversion Handbook, went out-of-print in 1979.

If you are interested but not familiar with the Command Sets, your best source for info about them may be another ham. Schematics for any of the receivers and transmitters are available from us @ \$1.50 each plus a SASE.



Command receivers are superheterodyne types which may be tuned by the use of a special spin knob or from a remote position with a control box and spine shaft. Each have six tubes: 3/12SKV, 12SR7, 12A6, and 12K5.

They are designed to operate from a DM-32, a 24 VDC dynamotor with an output of 250 VDC 60 MA and 24 volts. Shipped less dynamotor. Size: 5x5x11, 15 lbs sh.

BC-453/R-23 RECEIVER, 190-550 KHz, used \$21.

Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements were originally satisfied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmitters use a 1629 "eye" tube for tuning and crystal calibration plus tubes 2/1625 and 1626. Size: 5x7x12, 17 lbs. sh.

BC-457/T-20, 4 - 5.3 Mhz, reconditioned \$19.95  
BC-458/T-21, 5.3 - 7 Mhz, \$19.95

BC-456 MODULATOR for use with Command Transmitters; single tube modulation with tubes 1625, 12J5, 0D3. Has provision for mounting DM-33 dynamotor. 7x8x10, 11 lbs. sh. Used \$12.95

PUSH-ON TUNING KNOB f/Command Receivers, \$2. DM-32 DYNAMOTOR, 24 VDC f/receivers, \$4.95  
DM-32/12 DYNAMOTOR, 12 VDC f/receivers, \$6.

AC POWER SUPPLY f/Command Receivers w/speaker; our construction. Kit, \$32. Wired, \$40.

MC-215 FLEXIBLE SPLINE, 6", \$1.50

COMMAND SET RECEIVER & XMITTER RACKS:

FT-235/MT-7A, for one receiver, \$2.50

FT-234/MT-69, for one transmitter, \$2.75

FT-228/MT-71, for two transmitters, \$3.25

FT-227/MT-70 SHOCKMOUNT for FT-226, \$2.50

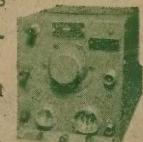
C-1254/A/C-2345 CONTROL BOX for tuning ARC-receivers over 108-135 Mhz; dial changeable. W/volume control; use with MG-215. Used \$9.

R-10/ARC BROADCAST BAND RECEIVER, like R-19 listed below but 520-1500 KHz AM, \$22.95

R-19/ARC AIRCRAFT RECEIVER, 118-148 Mhz continuously tunable. No dial; designed for remote tuning with spine shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6x5x11; 13 lbs. sh. Used, \$18.95

R-11A RECEIVER, 190-550 KHz. Similar to R-19 but has 85 KHz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, \$12.95

R-22 BROADCAST BAND RECEIVER, 550-1500 KHz. Similar to R-11. Used, \$24.95



## ARC-39 RECEIVER-XMITTER



RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 MHZ IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO INPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHZ @ 6 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6155. POWER REQUIRED: 28 VDC 4.4 AMPS WHEN RECEIVING; 8.5 AMPS TRANSMITTING. SIZE: 7 1/2x10 1/2x2 1/2. SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, \$49.50. MANUAL FOR RT-427/ARC-39, REPRODUCTION, \$10.

## 225-400 MHZ CONVERTER



AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receiver as plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7 1/2x6x2 1/2, 17 lbs sh. Used, \$34.95

AM-1179/GRC, 50 to 100 Mhz, \$39.50

AM-913/GRC, 100 to 225 Mhz, \$39.95

AM-1177/GRC, 400 to 600 Mhz, \$44.50

AM-3203A/GRC, 1.35 to 1.875 Ghz, \$49.50

AM-915/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 225-400 Mhz FM range. 120 watts output from two 4X150A's. 12x6x14, 45 lbs. Used \$55.

AM-1180/GRC, 50 to 100 Mhz using one 4X150A tube in power amp, \$49.50

AM-912/GRC, 100 to 225 Mhz FM using one 4X150A tube in power amp, \$75.00

Oscillators for AM-3204A, \$20.00 each: 0-902A (1.3-1.525 Ghz); 0-903A (1.525-1.7 Ghz); 0-904A (1.7-1.875 Ghz).

SCR-522 RECEIVER-TRANSMITTER

AM CRYSTAL CONTROL, 30 WATT, 4 CHANNEL ON ANY FREQ. IN THE 100-156 MHZ RANGE. TUBES TRANS. 2/832, 6SS7, 3/12A6, 66G REC. 1/9002, 9003, 1/206, 12H6, 3/12SG7, 12A6 & 2/12AH7. UNITS CAN BE REMOVED FROM CABINET CASE SEPARATELY. REQUIRES POWER SUPPLY. SIZE: 16x8x12x10"; WT: 50 LBS. RE-COND \$34.95 CONNECTOR PLUGS, \$1.50 EA. OTHER ITEMS AVAILAB.

K-77/ARC-3 VHF RECEIVER A.M. 100-156 MC, CRYSTAL CONTROL ON 8 PRE-SET CHAN. WITH TUBES 6/6AK5, 3/12SG7, 2/12SN7, 1 EA. 9001, 9002, 12A6, 12H6, 12SL7 & 12SH7. VOLTAGE REQ. 24 VDC & 210 VDC @ 210 MA. SIZE: 11x7x15; WT: 21 LBS. USED \$24.50

R-5009/ARC-502 SIMILAR TO ARC-3 EXCEPT MADE FOR CANADA. (WE WILL SHIP WHAT IS AVAILABLE)

T-67/ARC-3 TRANSMITTER A.M. 100-156 MC, 8 CHAN. PRESET, CRYSTAL CONTROL. WITH TUBES 2/832, 2/6L6 3/6V6, 1/6J5 & 1/12SH7. VOLTAGE REQ. 24 VDC & 410 VDC @ 325 MA. SIZE: 15x10x12"; WT: 22 LBS. USED \$24.95 CONNECTOR PLUGS \$1.50 OTHER ITEMS AVAILABLE.

R-445/ARN-30 RECEIVER, 108-135 Mhz, similar to R-19/ARC in other respects, used \$19.95  
CV-451/ARC TRANSVERTER, converts 228-258 Mhz to 118-148 Mhz; transmits 228-258 Mhz on 8 xtal channels. Used w/R-19. Re-newed, \$16.  
R-89/ARN-5A GLIDE-PATH RECEIVER, channels 332.6, 333.8, & 335.0 Mhz; 10 tubes, \$10.95  
R-122/ARN-12 MARKER BEACON, 75 Mhz fixed \$12

## ANTENNA RELAY

ANTENNA RELAY UNIT for Command Sets; switches antenna from transmitter to receiver. With 2 1/2"rd 0-10 antenna current meter and 5KV 50 pf vacuum capacitor. 4x3x5, 6 lbs sh. Unused. #RE-2/ARC, black finish, \$14.95  
#BC-442A, aluminum, \$15.95



R-101/ARN-6 RADIO COMPASS RECEIVER, 100-156 KC IN FOUR BANDS, WITH TUBES 6/12SK7, 4/12SX7, 2/6A7, 2/2050, 1/12SY7, & 1/12SX7. POWER REQUIRED ED 24-28 VDC.

SIZE: 11x7x15"; 40 LBS  
PRICE: USED \$39.50

AS-313/ARN-6 LOOP ANTENNA

USED \$15.00

ID-91/ARN-6 INDICATOR 3"

NEW \$12.95

PD-5/ARA-19 TUNING DRIVE

USED 9.95

AM-2038/ARA-19 AMPLIFIER

USED 8.95

C-149/ARN-6 CONTROL PANEL

USED, \$9.95

MC-124 FLEX. TUNING SHAFT 20 IN.

USED 1.50

MC-203 "T" ADAPTER

USED 1.50

MC-136 RIGHT ANGLE ADAPTER

USED 2.00

CU-308B/U ANTENNA COUPLER; USES CATHODE FOLLOWER TO COUPLE SINGLE ANTENNA WITH THREE RECEIVERS IN THE 2 TO 24 MHZ RANGE. INCLUDES THREE 24 VDC 500 OHM SPST RELAYS, 4/5906 TUBES, AND FOUR BNC CHASSIS CONNECTORS. POWER REQUIRED: 24 VDC 180 MA. 5x5x3 1/2"; WT: 4 LBS. UNUSED, \$9.95

## R-518 RECEIVER

R-518/FRR-27 RECEIVER, SINGLE-CHANNEL CRYSTAL-CONTROLLED RECEPTION OF AM OR TONE SIGNALS IN THE

100 TO 156 MHZ. RANGE. DOUBLE CONVERSION DESIGN WITH IF'S OF 23 MHZ AND 3 MHZ. AUDIO OUTPUT: 1.5 WATTS INTO 200-600 OHMS, 15 MW PHONE. ANTENNA INPUT: 50 OHMS UNBALANCED. WITH SQUELCH AND TUBES 3/12AT7, 2/6AU6, 5654, 2/6AV6, & 6005. POWER REQUIRED: 115 VAC 50-60 Hz. SIZE: 19 1/2x6x18 1/2; 45 LBS. USED, \$45.00

## COLLINS 250 KHZ I.F.

250 KHZ IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 KHz mechanical filter with 6.7 KHz width and tubes 3/5749 and 2/5726. 4 1/2x6x2 1/2, 3 lbs sh wt.

#IF250-67/618S1, used, \$12.95

250 KHZ IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters—one 2 KHz width, the other 8.5 KHz. #IF250/ARC38 \$24.95

250 KHZ CRYSTAL OSCILLATOR from Collins 618S-1. Has 250 KHz BFO oscillator coil, crystal oven with CR-45 250 KHz crystal, and 2/5749 tubes. 4 1/2x6x1 1/2, 2 lbs sh. #OSC-250/618S1, \$6.95

## VHF ARC-5 EQUIPMENT

R-28/ARC-5 100 to 156 Mhz RECEIVER, crystal-controlled on four preset channels. Crystals inserted behind front access door which also conceals frequency dial and squelch adjust. Channel selection done by separate control box C-30/ARC-5. With tubes 4/717, 3/12SH7, 2/12SL7, and 12A6. Requires 24 VDC for relay and selector motor, 250 VDC 60 MA HV. DM-32 may be used for HV. 14x7 1/2x4 1/2, 16 lbs. \$18.95 SCHEMATIC for R-28 or T-23/ARC-5, \$1.50 ea.

T-23/ARC-5 TRANSMITTER, companion to the R-28, has 10 watt output, though can be modified for higher rating. Uses two 832 and two 1625 tubes. Audio power for modulating originally supplied by MD-7 modulator (not available). Frequency channel selection made by separate C-30 control unit. Requires 24 VDC for relays and selector; 600 VDC 175 MA for HV. Size: 15 1/2x8 1/2x5 1/2; 18 lbs. sh. Gov't. reconditioned \$25. C-30/ARC-5 CONTROL BOX for above, \$3.00

## ALTIMETER TRANSCEIVER

RT-7/APN-1 ALTIMETER TRANSCEIVER, 418 TO 462 MHZ FM; ABSOLUTE READINGS TO 4000 FEET. CAN BE CONVERTED FOR OTHER USES. UNIT CONTAINS WOBBLULATOR, DYNAMIC MOTOR, AND TUBES 2/955, 2/9004, 3/125J7, 4/12SH7, 2/12H6, AND OD3. POWER REQUIRED: 27 VDC 3 AMPS. SIZE: 8 $\frac{1}{2}$ x18 $\frac{1}{2}$ x8; SH WT: 25 LBS. UNUSED, \$18.95; MANUAL, NO SCHEMATIC, \$3.00. SHOCKMOUNT ASSEMBLY FOR APN-1, \$2.00.

ID-14A/APN-1 RADIO ALTITUDE INDICATOR USED WITH RT-7. 2 $\frac{1}{2}$ " DIA. METER HAS SWITCHABLE SCALES 0-400 FT. AND 400-4000 FT. ON-OFF SWITCH. FS-6 MADC. UNUSED, \$3.95.

SA-1/ARN-1 ALTIMETER LIMITER SWITCH USED WITH RT-7 AND ID-14A IN CONJUNCTION WITH AN AUTOPILOT SYSTEM. ALTITUDE LIMIT SET FROM 50 FT. TO 300 FT. IN 25' STEPS; X 10 MULTIPLIER FOR HIGHER ALTITUDES. DESIGNED TO SIGNAL WHEN MIN. AND MAX. LIMITS ARE EXCEEDED. 3" DIA. UNUSED, \$2.95.

## SWR INDICATOR CIRCUIT

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1 $\frac{1}{2}$ " square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1; 2 lbs. #M701/CU-991, \$8.95.

PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-center microammeter. Phasing and loading discriminator produces  $\pm$  DC voltages proportional to the reactance of a system. Phasing output shows the type of reactance (capacitive or inductive) and the loading's indicates the amplitude of impedance referenced to 52 ohms resistive. In both cases zero DC output is ideal (may not be obtained in practical circuit). A third output is proportional to relative antenna current. 2x3x3; 2 lbs. sh #T201/CU-991 w/diag., \$4.95.

## DAV WALKIE-TALKIE

DAV-2 PORTABLE TRANSCEIVER with direction-finder circuit; operates on single channel between 2.3 and 4.5 MHz @ 200 MW. Has controls for receive, transmit, and sense. Also water-tight O.D. plywood case, JK-26 phone jack, connection for T-45 mic, FT-243 crystal (no frequency choice), book, and tubes 3/3S4, 2/1T4, 1R5, and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 6 VDC 30 ma, and 1.5 VDC 225 ma. Size: 10 $\frac{1}{2}$ x10, 8 lbs sh wt. Used, \$10.95. \*\*We will try to ship matched frequency pairs when two or more DAV's are ordered.\*\*

ACCESSORIES which can be used with DAV-2: T-45 LIP MIC or T-30 THROAT MIC, unused, \$3. CCL-49559 HEADSET ASSEMBLY consisting of cloth helmet with headphones, unused, \$4.95. H-62 HEADSET, used, \$4.95. CW-51071 LIP MIC, used w/H-62; unused, \$3.00. CCL-66081 ANTENNA, seven section 15"-85" collapsible-telescoping, \$1.50 w/DAV purch.

MAB PORTABLE TRANSCEIVER CHASSIS, originally designed to operate between 2.3 and 4.5 MHz on a single channel; 200 MW output. In waterproof black plastic case; mic and headset cut-off and not available. W/tubes 3/3S4, 2/1T4, 1R5 and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 1.5 VDC 225 ma, 6 VDC 30 ma. Size: 8 $\frac{1}{2}$ x7 $\frac{1}{2}$ ; 8 lbs. sh. Unused, w/book, \$6.95.

## RADIO TELEPHONE LINK



AN/TRC-47 RADIO TELEPHONE LINK, connects radio voice communications to two-line telephone systems. Consists of transmitter, receiver, and signal converter sections. Operates on a single crystal-controlled channel in the 132-150 MHz band. Carrier output: 7 watts. Converter changes 20 Hz ringing signal into a radio transmittable 800 Hz signal and vice versa. Used in pairs, the sets can establish links up to three miles apart. With built-in speaker, tuning meter, and tubes 3/0A2, 3/0B2, 2E26, 5R4, 4/6AK5, 2/6AK6, 6AQ5, 6AS6, 6AX5, 2/6BA6, 2/676, 2/6L6, 3/6X4, 4/12AT7, 2/12AU7, 2/12AX7, and 5763. Power required: 115/230 VAC 50-400 Hz. 21 $\frac{1}{2}$ x14 $\frac{1}{2}$ x22 $\frac{1}{2}$ ; 100 lbs. sh. Used, repairable, \$55.

## RADIOSONDE

AN/AMT-4A RADIOSONDE: CONSISTING OF THE T-304A TRANSMITTER & MD-147C MODULATOR. TRANS. IS A.M., 1680 MHZ AND THE MODULATOR CONTAINS THE PRESSURE SENSITIVE ELEMENT OR ANEROID, TEMPERATURE ELE. HUMIDITY ELEMENT AND A COMUTATOR, SERVES AS A SWITCHING ARRANGEMENT FOR THE DIFFERENT SERVICES WHICH IS TRANSMITTED BY THE RADIOSONDE THAT IS TAKEN UP BY A METEOROLOGICAL BALLOON. ALSO USED FOR TRACKING WIND DIRECTION. WITH TUBES 5794 AND 5875. BATT. VOLTAGE REQ. 1.5, 6 & 115 VDC. WT: LESS BATT. 1 $\frac{1}{2}$  LBS. (613 GRAMS.) PRICES: MODULATOR ONLY LESS HUMIDITY AND SENSITIVE ELEMENTS \$3. TRANSMITTER ONLY \$4.95.

RT-380/AR RECEIVER-TRANSMITTER 2 TO 18.5 MC C.W. PHONE, 100 WATT TRANS. AM CRYSTAL CONTROL ON 10 PRE SELECTED FREQ. RECEIVER 50 MW MIN. INTO 600 OHM LOAD. WITH TUBES 1/813, 2/811, 1/1625, 1/6AG7, 1/6V6, 1/12BE6, 2/12AU7, 2/12AL5, 2/28D7 & 4/6BA6. POWER REQUIRED 400 VDC @ 750 MA. 750 VDC @ 350 MA. AND 27 VDC FOR RELAY AC FOR FILAMENT. (SIMILAR TO COLLINS 1884) SIZE: 15 $\frac{1}{2}$ x7 $\frac{1}{2}$ x23 $\frac{1}{2}$ ; WT: 70 LBS. LESS CRYSTALS PRICE: USED LESS DYNAMOTOR \$49.50

R-1/ARR-1 HOMING RECEIVER ADAPTER, converts 234-258 Mhz input signal to 540-830 KHz output. Input and output impedances: 50 ohms. W/ tuning dial, ant. trim, and 4/954 tubes. Unit has conversion possibilities. Req 12/24 VDC 280/140 ma, 220 VDC 10 ma. 3 $\frac{1}{2}$ x4x12 $\frac{1}{2}$ , 6 lbs. Damaged RF capacitor, used "as-is", \$7.50.

KB9-A 16 MM MOVIE CAMERA USED TO RECORD STRIKES BY THE MILITARY. HAS 35 MM, F3.5 KODAK EKTAR LENS; VARIABLE APERTURE FROM F3.5 TO F16. FILM SPEED: 32 FRAMES PER SECOND. FILM CAPACITY: 35 FT 16 MM FILM. CAN BE ACTUATED BY REMOTE CONTROL. POWER REQUIRED: 27 VDC FOR DRIVE MOTOR AND HEATER. RED AND YELLOW FILTERS INCLD. SIZE: 7x $\frac{1}{2}$ x2 $\frac{1}{2}$  SHPG. WT: 5 LBS. PRICE: NEW \$34.95

## CARTRIVISION COMPONENTS

FISH TANK

FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR, DC POWER SUPPLY (115 V 60 HZ); OUTPUT -12/-12 V AMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC'S, FET, TRANSISTORS, TRANSFORMER, VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x6 $\frac{1}{2}$  WT 15 LBS \$14.95

## EQUIPMENT RACKS

STANDARD 19" RACK EQUIPMENT CABINETS 4#FAA-19-76 RACK, o/a 21 $\frac{1}{2}$ x7 $\frac{1}{2}$ x21 $\frac{1}{2}$ "D or panel 19x68x20; no doors. Steel 200 lbs sh. Used, \$65.00.

#2MAG-19-70 DOUBLE CABINET, o/a 43 $\frac{1}{2}$ "Wx70"x22"D for two 19x61x20 panels. W/wheels and extended base. Steel, 300 lbs sh. \$100. #GE-19-84 RACK, o/a 21 $\frac{1}{2}$ "Wx84"x22"D. f/panel 19x80x20; 2-rack braces only. 225 lbs. \$60.

## ENCLOSURES

STEEL CABINET with lift top for 7"X14"x8 $\frac{1}{2}$ "D panel. O/a 8x16 $\frac{1}{2}$ x8 $\frac{1}{2}$ , 7 lbs. #SK-CAB7148, used, \$5.95. PANEL with miscellaneous parts f/above, \$1.50.

Stk # W x H x D Panel Door Lbs PRICE 1313/60 19x13x13 12 top 35 Used, \$10. CY-1693 22x16 $\frac{1}{2}$ x14 14 no 35 Unused \$18.

CS-191 CABINET-CASE, 13"X10 $\frac{1}{2}$ "H x7" $\frac{1}{2}$ D; includes panel with cut-outs and markings for URM-191 solid-state signal generator. Also top handle and 2 $\frac{1}{2}$ "D cover w/hasp fasteners. Unused, \$14.95.

CS-26D CASE w/top handle; p/o VTVM. Louvered sides; o/a 7"X10 $\frac{1}{2}$ x7 $\frac{1}{2}$ "D. 4 lbs. Used, \$7.95.

CS-618SI CASE w/CHASSIS, 15 $\frac{1}{2}$ "Wx8 $\frac{1}{2}$ "Hx23 $\frac{1}{2}$ "D (20" D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used, \$12.

CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"X7 $\frac{1}{2}$ "Hx13 $\frac{1}{2}$ "D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, \$8.95.



## TRANSIT CASES

TS-382 TRANSIT CASE, o/a 15x19x15 $\frac{1}{2}$ ; usable space without removal of spacers 10x16 $\frac{1}{2}$ x12 $\frac{1}{2}$ . Not hinged; hasp fasteners. Aluminum; 35 lbs. Used, \$14.00.

CS-15X12 TRANSIT CASE, o/a 19 $\frac{1}{2}$ x19 $\frac{1}{2}$ x14D; interior usable 18x15x12 plus 3 $\frac{1}{2}$ " deep compartment in cover. Aluminum with side handles and hasp fasteners; 40 lbs. \$15.00.

CS-15X18 CASE, o/a 23 $\frac{1}{2}$ x18 $\frac{1}{2}$ x17 $\frac{1}{2}$ "D. Usable interior 19x15 $\frac{1}{2}$ x14 plus 4" H cover. Aluminum with side handles and hasp fasteners. 46 lbs sh, used, \$16.00.

CY-1344 TRANSIT CASE, o/a 20 $\frac{1}{2}$ x18 $\frac{1}{2}$ x12 $\frac{1}{2}$ D; usable interior 18 $\frac{1}{2}$ x17x10. Aluminum with hasp fasteners and side handles. 30 lbs \$17.

CY693/PDR-27 ALUMINUM CASE, four compartments: 3 $\frac{1}{2}$ x4, 7 $\frac{1}{2}$ x4, 1 $\frac{1}{2}$ x4, and 13x6; may be removed for 13x10" size 9" deep. Hasp fasteners; may need repainting. 12 lbs. Used, \$6.00.

FIBERGLASS CASE with hasp fasteners (not hinged). O/A 14 $\frac{1}{2}$ x14 $\frac{1}{2}$ x12 $\frac{1}{2}$ ; usable 12x12x6 without removing spacers. 10 lbs. Used, \$5.00.

CY-1298 SPARE TUBES CASE w/hasp fasteners. Removable insert has space for 117/7-pin and 2/9-pin mini and one "GT" tube. O/A 14 $\frac{1}{2}$ x10x3 $\frac{1}{2}$ , 4 lbs sh. Used, \$3.50.

CY-1451 SPARES CASE, similar to CY-1298 except space for 7- and 9-pin mini tubes and two 4X4CX PA tubes. Used, \$4.00.

MOTOROLA MOBILE RADIO CASES, olive-drab "80-D" style; 15 $\frac{1}{2}$ x6x17 $\frac{1}{2}$ "D, 34 lbs sh wt. W/key; used, \$14. Specify: #CS-XT/MRC xmitter case with 18-pin connector or #CS-REC/MRC case with 28-pin connector.

GS-48 CASE, steel, 16 $\frac{1}{2}$ x7 $\frac{1}{2}$ x7 $\frac{1}{2}$ "D; 5 lbs. Used \$3. 2/\$3.00.

## U.H.F. RECEIVER



R-48/TRC-8 RECEIVER  
F.M. 230 TO 250 MC.  
ONE BAND VARIABLE  
TUNING, VOLTAGE RE-  
QUIRED 115/230 60 CYC.  
WITH SPEAKER, PHONE  
JACK, SQUELCH CIRCUIT  
23" METER FOR CIRCUIT  
CHECKING. WITH TUBES 8/6AG7, 1/9002, 1/5U4, 1/  
6V6, 1/VR-150, 1/6N7, 1/6SN7, 1/6AL7. SIZE: 20x  
19x16; WT: 75 LBS.  
USED \$45.00

## CV-89 FS CONVERTER



CV-89/URA-8 FREQUEN-  
CY SHIFT CONVERTER,  
audio frequency con-  
version type with  
2B1 CRT. Shifts  
10-200 Hz @ 1 KHz center frequency; 200-1000  
Hz @ 2550 c-f. Maximum keying speed: 60 wpm  
for single channel. Teletype output 60 ma  
DC loop @ 70 V. Two AF inputs, one for narrow  
one for wide shift; each 600 ohms ct, 60 uW  
to 60 mW input power. Requires 115 VAC 60 Hz.  
5 1/2x17x21, 55 lbs sh wt. Used-reparable, \$85.  
Flanges for rackmount use, \$5 additional.  
Manual, partial repro., \$10. Power conn., \$3.

## CV-116/URR FSK CONVERTER



for use with receivers  
having final IF's from  
450 to 510 KHz such as  
R-220, R-388, R-390A  
and SP-600. Converts  
frequency-shift signals  
into DC pulse that key the energizing  
circuits of teleprinters; translates at 100  
dot Hz/sec. Unit can be used with two receiv-  
ers. Channel A IF center frequency 50 KHz;  
channel B, 29.3 KHz. Input IS range 150-1000  
Hz, 100 uv minimum; 50 ohm impedance. Separ-  
ate control unit required between CV-116 and  
teleprinter to match output-input signals.  
Requires 115 VAC 60 Hz. 8 1/2x17x18; 80 lbs sh.  
Used, reparable, \$100. Manual, partial, \$10.

## AMPLIFIED FIELD PHONE



TP-9 AMPLIFIED FIELD TELE-  
PHONE, permits communica-  
tion over greater distances  
than standard battery  
field phones such as EE-8,  
TA-43, and TA-312. Uses  
vacuum tube amplifiers for  
receiving and transmitter  
circuits. TP-9 can be used  
between standard field  
phones and effectively  
double their range. Has  
bell for audible signaling and indicator  
light for noiseless signal. Set consists of  
aluminum chassis containing GN-38B generator  
ringer, amplifiers, and TS-9 handset. Pro-  
vision for head and chest set use. Requires  
4.5 VDC 50 ma, 1.5 VDC 200 ma, and 67.5 VDC  
5.5 ma. 11 1/2x11x7 1/2, 25 lbs sh. Used, \$42.50

## BANDPASS CAVITIES



FULL-LENGTH TWIN-CAVITY  
BANDPASS FILTERS, 9-1/8"  
length; gold-plated. Simi-  
lar to filters described in  
W4FFE's article in 2/80 Ham  
Radio Magazine. 8 lbs sh  
wt. \$24.95 each

F-240 (67-76 Mhz) F-239/U (58.5-67 Mhz)  
F-242/U (84-92.5 Mhz)  
F-241 (76-84 Mhz) F-243/U (92.5-100 Mhz)  
  
SHORT-LENGTH twin-cavities, \$19.95 each.  
F-195/U (163-184 Mhz) F-201/U (284-314 Mhz)  
F-196/U (184-205 " ) F-202/U (314-344 " )  
F-199/U (224-254 " ) F-203/U (344-374 " )  
F-200/U (254-284 " ) F-204/U (374-404 " )

ALUMINUM CASE WITH RACK for  
six of the above filters.  
Case has hasp fasteners and  
side handles. 18 1/2x20 1/2  
x12 1/2, 35 lbs. \$25.00  
CY-1344 CASE only, \$17.50  
FILTER RACK only, \$12.50

Filters not  
included.

## VHF RECEIVER



BC-639 RECEIVER, 100 to  
158 Mhz AM continuously  
tunable over a single  
band. Controls for CW,  
tone, AVC-Manual, RF  
and Audio Gain, Atten-  
uation, and Sensitivity.  
With tuning meter,  
phone jacks, and tubes 3/9003, 9002, 4/6SG7,  
6SG7, and 6X6. Power required: 210 VDC 60 MA  
and 6.3 VAC 3.5 amps. Size: 10 1/2x19x10, 48  
lbs sh. Used, reparable, \$30. Checked, \$60.

115 VAC 60 Hz POWER SUPPLY for BC-639; with  
speaker. Our construction, \$30.00  
CONNECTOR only for receiver, \$3.00  
MANUAL f/BC-639, partial reproduction, \$8.50

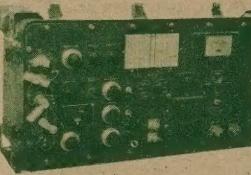
## BC-603 RECEIVER

BC-603 FM RECEIVER, designed  
for 20-27.9 Mhz using ten push-  
button preset channels. How-  
ever, units have been inter-  
nally converted to 34 to 50 Mhz  
range. Built-in speaker; re-  
quires 220 VDC 80 ma, 12/24  
VDC. P/o SCR-508-528. 11 1/2x6 1/2  
x12; 40 lbs sh wt. Used, less  
dynamotor, \$54.50; with DM-34  
12-VDC dynamotor, \$59.50.

BC-683 RECEIVER, same as BC-603 except 27 to  
38.9 Mhz (not converted); p/o SCR-608-628.

Used, less dynamotor, \$55; w/DM-34, \$60.00  
BC-604 TRANSMITTER, companion to BC-603; 70  
lbs sh. Unused, less dynamotor, \$25.00  
DM-35 12 VDC DYNAMOTOR for BC-604, unused \$20  
FT-237 MOUNT for SCR-508-528 or -608-628; 60  
lbs sh wt. Unused, \$28. CO-278 cable 8'; \$4.  
MANUALS for SCR-508-528 or 608-628, \$7.50 ea.

## 4.4 - 5.0 GHZ TRANSCEIVER



RT-252/TRC-27 MICRO-  
WAVE TRANSCEIVER, 4400-5000 Mhz pulse-  
position modulated, continuously tunable.  
Converts video channel  
pulses into RF for transmission and  
receives RF and converts it back into  
video pulse. Receiver IF: 60 Mhz; 10 Mhz  
bandwidth. Noise figure: 13 db. Has AGC and  
AFC. Transmitter uses video amplification  
and plate modulation of planar triode type  
RF oscillator. With tubes 2K22 klystron,  
6280 planar triode, 13/5654, 5670, 5726,  
5727, 5814, 2/12AT7, 2/6X4, 6AU6, 3/0A2,  
5933, and 3/6AQ5. Power required: 115 VAC  
400 Hz. Size: 14 1/2x25x11 1/2, 75 lbs. sh.  
Used, not checked, \$150. Schematic, \$5.00

I-152(\*) INDICATOR; USED  
WITH BC-788 ALTIMETER  
FOR INDICATING HEIGHT  
OVER TERRAIN IN AIRCRAFT  
WITH 3DPI CATHODE RAY  
TUBE(SAME SOCKET/SHIELD  
AS 3BPI TUBE AND OTHER  
TYPES) ALSO TUBES 3/  
6AG5 AND 2X2. HAS R.F.  
CIRCUIT POTENTIOMETERS,  
115 V. 400 CYCLE POWER

SUPPLY ETC. (WILL MAKE GOOD FOUNDATION FOR  
A MONITOR) SIZE: 6 1/2x6 1/2x12; WT: 9 LBS.  
PRICE: USED \$8.95 SCHEMATIC \$1.00

## ARR-58 FM RECEIVER

R-863/ARR-58 RECEIVER FM  
162.25 TO 173.5 Mhz. De-  
signed to receive Sonobouy  
signals on 16 preset chan-  
nels. IF=30 Mhz. INPUT IM-  
PEDANCE: 52 OHMS. MORE RE-  
CENT VERSION OF THE R-316/  
ARR-26 RECEIVER. CONVER-  
SION INFO FOR R-316 TO  
145-175 Mhz PLUS AUDIO, SQUELCH, AND 115 VAC  
60 Hz POWER MODIFICATION INFO INCLUDED. WITH  
TUBES 7/6AK5, 2/6AS6, 2/6AL5, 6J6, AND 5814.  
POWER REQUIRED: 150 VDC 125 MA AND 6.3 VAC.  
SIZE: 5x8x17, WT: 20 LBS. USED, \$19.95

AN/GRC-10 RADIO SET, includes R-125 receiver,  
T-235 xmitter, DY-94 AC power supply, C-632  
control, & mount; 54-70.9 Mhz FM. Used, \$200.

## COMMUNICATIONS CENTER

COMMUNICATIONS CENTER,  
INCLUDES ASR-33 tele-  
typewriter, Tally 464  
paper tape reader,  
Honeywell optical bar  
code reader, logic  
chassis assembly, and  
power supplies. All are  
contained in an L-shaped cabinet  
with simulated wood-grain top except  
for the teletypewriter which sits on the  
desk top. System has automatic send-receive  
and features a teletypewriter which has a  
paper punch and operates at 100  
words/minute, 600 operations/second.  
Utilizes ASCII code with parity  
bit and prints on  
8 1/2" friction-fed paper.  
Teletypewriter is made by  
Teletype Corp.

and is the same as their Model ASR-33 except  
that the standard ASR-33 control module is  
eliminated and its functions incorporated in  
to the system's logic chassis. Consoles are  
removed from service, appear complete, but  
are not operationally checked; with manuals.  
550 lbs sh. \$450.00 or \$365.00 you pick-up.  
ASR-33 TELETYPEWRITER only, as described in  
the above system, 85 lbs sh., \$250. (Loop and control kit allowing stand-alone  
operation of this ASR-33 available from another source. Write for more information.)

KSR-33 TELETYPEWRITER  
AND KEYBOARD, CAN BE  
ADAPTED FOR VARIOUS RTTY  
AND COMPUTER APPLICA-  
TIONS. SPEED: 100 WORDS  
PER MINUTE; 600 OPERA-  
TIONS PER SECOND. HAS  
THE FOLLOWING FUNCTIONS:

CARRIAGE RETURN, LINE FEED, SPACE, AND SHIFT.  
UTILIZES ASC-II CODE WITH PARITY BIT. TAKES  
8 1/2" SPROCKET-FED PAPER. THIS IS A STANDARD  
ITEM; PARTS ARE AVAILABLE FROM A NUMBER OF  
SOURCES. POWER REQUIRED: 115 VAC 60 Hz.  
SIZE: 8 1/2x18 1/2x12; SHPG. WT: 50 LBS.  
USED, OPERATIONAL, BUT MAY REQUIRE SOME AD-  
JUSTMENT. LESS COVER, \$250. \$185.00 \$145.

## BANDPASS FILTER



F-237/GRC BANDPASS FILTER, designed to operate  
from 54 to 70.9 Mhz using dial tuning.  
Bandwidth: 250 KHz @ 3 db points or 4.5 Mhz  
@ 40 db points. 50 ohm output and input im-  
pedance. Unit consists of a 3-gang variable  
capacitor coupled to 3 sets of three sealed  
cavities. Type C connections. F-237 has con-  
version possibilities for 6- and 2-meter  
amateur applications. An article about these  
by W. Tucker, W4FFE, appeared in 12/80 issue  
of Ham Radio. 5x11x11, 17 lbs. \$19.95

## TMC - SSB CONVERTER

CV-591 SSB CON-  
VERTER, same as  
TMC MSR-4. Used  
with 2-32 Mhz  
receivers with  
455 KHz IF's  
such as the  
F-237/GRC BANDPASS FILTER, designed to operate  
from 54 to 70.9 Mhz using dial tuning.  
Bandwidth: 250 KHz @ 3 db points or 4.5 Mhz  
@ 40 db points. 50 ohm output and input im-  
pedance. Unit consists of a 3-gang variable  
capacitor coupled to 3 sets of three sealed  
cavities. Type C connections. F-237 has con-  
version possibilities for 6- and 2-meter  
amateur applications. An article about these  
by W. Tucker, W4FFE, appeared in 12/80 issue  
of Ham Radio. 5x11x11, 17 lbs. \$19.95

## 0.5 - 32 MHZ RECEIVER

R-390A/URR RECEIVER, covers 0.5 to 32 Mhz in 32 one Mhz bands read directly from a counter-type indicator. Mechanical filters. Triple conversion; 1st IF variable 17.5-25 Mhz; 2nd, 3-2 Mhz; 3rd, fixed 455 KHz. Receives CW, MCW, and voice; also single sideband and FSK through use of BFO. Built-in crystal calibrator every 100 KHz. Output impedance: 600 ohms. Antenna input imped: 125 ohms balanced. Rackmount, no covers. 115/230 VAC 60 Hz. Size: 10 $\frac{1}{2}$ x19x16 $\frac{1}{2}$ ; 95 lbs. sh.

R-390A USED, REPARABLE, CHECKED, \$450.00-\$295. MANUAL, \$12.00

## XMITTER MODULATOR

MD-203/GRC MODULATOR, converts a transmitter's CW signals into frequency shift signals for teletypewriter transmission when coupled to the transmitter's exciter. Designed for use with T-195/GRC xmitter, the unit is useable with any xmitter with a fundamental frequency in the 1.5 to 3 Mhz range. Frequency shift: 850 Hz (1.5-3.0 Mhz), 425 Hz (3-6 Mhz), 212 Hz (6-12 Mhz), and 106 Hz (12-20 Mhz) according to ten position freq. band selector switch. 1 volt min. input necessary. With tubes 26AV, 26D6, and 5/26A6. Power required: 27 VDC 1.6 amps. 9 $\frac{1}{2}$ x7 $\frac{1}{2}$ x13 $\frac{1}{2}$ , 25 lbs. sh. Used, \$17.50; Power plug, \$3. w/set purchase. MANUAL for MD-203, partial reproduction \$8.50

## CODE PRACTICE SET

AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating upto 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db. Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/6AK6. Keys not included. 13 $\frac{1}{2}$ x18x11; 58 lbs sh. Used, \$14.95; Gov't. recond., \$24.95

SOLID-STATE AUDIO FREQUENCY AMPLIFIER, DESIGNED FOR USE IN AIRCRAFT ON-BOARD COMMUNICATIONS. FOR TALKING OR LISTENING. HAS PEAK CLIPPING AND AGC CIRCUIT. RESPONSE: 200-6000 Hz; 150 MW OUTPUT. Uses 27 VDC. SIZE: 4-3/8x1 $\frac{1}{2}$ x3; SH WT: 2 LBS. AM-476/AIC-10, OPEN FRAME AS PICTURED, USED, \$4.95; AM-476, SEALED/POTTED, \$2.95

R-391/URR RECEIVER, 0.5 to 32 Mhz AM and CW. Similar to R-390A except has autotune capabilities for 8 preset channels and does not have mechanical filters. 24 VDC required for autotune use; rackmt. Used, reparabile, \$250.

## WIRE RECORDER

10/VRW-7 WIRE RECORDER, unit records only--no playback. Has single input channel; 600 ohm impedance. 290 RPM recording speed; 300 to 3500 Hz frequency response. Has volume control, mic and headphone jacks on front. With two 2SD7 tubes and reel of wire for 60 minutes of recording. Requires 24 VDC for operation. 12 $\frac{1}{2}$ x7 $\frac{1}{2}$ x6 $\frac{1}{2}$ , 17 lbs sh wt. Used, \$17.95

MX-303A/VRW WIRE RECORDER MAGAZINE with 60 minutes of recording wire, magnetizing head, other parts; 5 lbs. See page 9, used, \$9.95

## TA-1/PT TELEPHONE

SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR. COILED CORD WITH PUSH TYPE BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRYING CASE. SIZE: 8 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; WT: ACT 2LB USED \$25.00 EACH

## OSCILLATOR

TRANSISTORIZED CRYSTAL OSCILLATOR AND BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) xtal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6 $\frac{1}{2}$ x2x3 $\frac{1}{2}$ , #OSC99828, \$10.

## LS-184 SPEAKER

LS-184/AIC-10 LOUDSPEAKER with AM-492 amplifier. 5" blast-proof speaker is rated 5 watts; 5.5 V input for 1 W output 300-6000 Hz. Input impedance approx 900 ohms. Amplifier uses four 5178 tubes parallel push-pull. Transformer coupled input and output. Requires 27 VDC 150 ma and 170 VAC 30 ma. DPDT switch requires wiring. 7 $\frac{1}{2}$ x4 $\frac{1}{2}$ x1/8, 5 lbs sh. Used, w/schematic, \$22.95

## FL-30 AUDIO FILTER

1020 HZ AUDIO FILTERS, can be used to reduce interference in CW and audio signals for receivers. Each filter provides a sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "range mode". Response can be broadened by placing a variable resistor from input to output. Terminal strip connections. 3-1/8x3 $\frac{1}{2}$ , 3 lbs sh. Used, \$4.95

F-90 AUDIO FILTER, similer to FL-30 except has sharper filter action. Designed for aircraft panel mount; has one 28 V panel light and schematic. 5 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3 $\frac{1}{2}$ , 3 lbs sh. Used, \$3.95  
MATING CONNECTOR for F-90, \$2.50

RD-60/U CODE RECORDER OF RADIO TELEGRAPH CODE SIGNALS. USES 3/8" WIDE, 800 FOOT ROLLS OF PAPER TAPE. RECORDS CODE SPEEDS UP TO 1000 WORDS PER MINUTE WITH A RECORDING TIME OF 26 MINUTES (LOW) OR 13 MINUTES (HIGH). INPUT SIGNAL FREQ. 500 TO 5000 Hz. INPUT IMPEDANCE 500 AND 5000 OHMS. OUTPUT IMPED. 6 OHMS. WITH 9 TUBES. POWER REQ. 115 V. 60 Hz. SIZE 19x16x12 $\frac{1}{2}$ ; WT: 150 LBS.

PRICES: USED LESS CABINET REPARABLE \$19.95  
" WITH " " 24.95  
GOV' RE-CONDITIONED W/CABINET 30.00  
MANUAL for RD-60 recorder, \$5.00

## AUDIO AMPLIFIER

AM-864 AUDIO FREQUENCY AMPLIFIER, peak-limiting unit for AM and FM broadcast. Also may be used in recording and sound systems requiring automatic regulation of program level. Input and output impedance 600 ohms-ct; gain 36 db max. Distortion less than 2% @ 400, 1K, and 5K Hz. Noise level 40 db below 6 MW. Response flat within 1 db from 100 to 5000 Hz. With tubes 2/6SK7, 6SN7, 6SN7, 5Y3. Requires 115/230 VAC 50-60 Hz. 7x19x8 $\frac{1}{2}$ , 32 lbs sh. Used-not checked, \$24.95

## ALTEC TRANSISTOR AMP

ALTEC LANSING 456B TRANSISTOR AMPLIFIER for voice communications or as part of telephone repeater system; response 200-6000 Hz. -22 db max power input; +17 db max power output. Input variable -2 db to 39 db. Simplex 100 ma max; unbalanced 5 ma. Input/output impedance 600 ohm; 24/48 VDC. 14x14x5, 2 lbs. \$4 4/12.

## LANGUAGE LAB RECORDER

LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. Has three heads: one playback only master head on one track and the other two, playback and record, on a second student track. Uses standard 1" audio tape on up to 7" reels at speeds 3 $\frac{1}{2}$  and 7 $\frac{1}{2}$  ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by switching plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice or for sound-on-sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16x8 $\frac{1}{2}$ ; 32 lbs net, 40 lbs sh wt. Used, reparabile, \$27.95; Checked, \$49.50

## MOTOROLA TRANSCEIVER

MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 KHz final I.F. Audio output 2 watts into 3.2 ohms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals, control head, and other accessories not available. With schematics. 6x10x19 $\frac{1}{2}$ , 28 lbs. Reparable, \$35.

## FIELD PHONE-CONTROL SET

C-2172/GRC-14 FIELD REMOTE CONTROL SET; DESIGNED FOR USE WITH AN/GRC-14 RADIO GROUP IN AM, PHONE, AND CW KEYING OPERATIONS OVER A TWO-WIRE 600 OHM TELEPHONE LINE. INCLUDES 20 HZ RINGER SYSTEM CONSISTING OF A HAND-CRANK MAGNETO GENERATOR AND BELL. WHEN USED WITH A H-33/PT-HANDSET, THE CONTROL UNIT IS FUNCTIONALLY A FIELD TELEPHONE. TERMINALS PROVIDED FOR PHONES, MIC, AND KEY. SWITCHES FOR SERVICE (CW, AM, AND TEL); FSK CONTROL; AND SIGNAL (BELL OR CALL LIGHT). SOLD WITH H-33/PT HANDSET. POWER REQUIRED: TWO "D" CELL AND ONE 45 VDC BATTERY (NOT AVAILABLE). SIZE: 3 $\frac{1}{2}$ x9-3/8x7-1/8; SHPG. WT: 13 LBS. PRICE: UNUSED, WITH USED H-33/PT, \$24.95

# Headsets — Telephone Equipment — Microphones — Handsets



HS-33 HEADSET .600 OHM. W/USED ANBH-1 ELEMENTS AND UNUSED GREY PLASTIC HEADBAND. 4<sup>1</sup>/<sub>2</sub>" CORD WITH PLUG. LESS CUSHIONS. \$15.00

HS-33 W/HB-7 BROWN HEADBAND (NOT U.S. MFG.) 18" CORD AND PL-354 PLG. \$14.50

HS-23 HEADSET 2000 OHM; SAME HS-33 EX-

W/GREY HB-7 \$9.25  
W/BROWN HB-7 \$9.00

4" CHAMOIS CUSHIONS. \$2.25 PR.  
RUBBER CUSHIONS  
MC-162, 2<sup>1</sup>/<sub>2</sub>", \$1.00  
MX-41, 2<sup>1</sup>/<sub>2</sub>", \$1.25

HB-7 HEADBAND ONLY  
GREY \$3.25 BRO. \$3



#2A/CANI638 DYNAMIC HEADPHONES, 50 OHMS IMPED., MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, "Y" CORD, AND PHONE PLUG. UNUSED, \$5.95

SOUND-POWERED INTRUSION MICROPHONE 225 ohms with 6" stake for pushing into ground for artillery use. T-56 USI element 1614-11 unused \$3.75

Western Electric Sound-Powered 1024 ohms D-173016 trans. D-173012 receiver New \$3.00 ea.

Carbon Elements F-1 Mic. \$1.50  
Lip Mics: M-51 M-6 M419 etc. \$1.50  
Telephone elements: U-1 or T-1, \$2.00



T-17 MIC CARBON 35 TO 90 OHM PUSH-TO-TALK; PL-68 ON 5' CORD. USED \$6.95 RE-COND. \$9. NOT U.S. MFG.. \$8.



RS-38 MIC, 100 OHM CARBON. 15" COIL CORD W/ PL-68. USED \$6. UNUSED \$8.

HS-230 HEADSET w/250 ohm elements as used in HS-30; soft 3<sup>1</sup>/<sub>2</sub>" velour cushions, leather headband, & 18" cord w/PL-54 plug. Unused, \$9.95



H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE) WT: 3LBS. USED-EX \$5.95

H-62 HEADSET SAME AS H-113/U ONLY IN BLACK AND HAS PROVISIONS FOR SNAPING ON LIP MICROPHONE CW-51071 LISTED BELOW. USED-EX. \$4.95

CW-51071 LIP MICROPHONE 100 OHMS IMPEDANCE W/ 2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/ PL-291 PLUG INTO EXTENSION CORD CD-318, LISTED ON THIS PAGE OR CW-49561 EXTENSION CORD LISTED BELOW USED \$1.00

JK-38 PHONE JACK FOR INLINE USE, TAKES TWO PL-55 PHONE PLUGS \$1

PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 \$1.25

DOUBLE PLUG D178452 F/HEADSET SIMILAR 289 298. #3850 NEW \$2.50

SWITCHBOARD CORD 4<sup>1</sup>/<sub>2</sub>" W/PL-47 #BD-96 \$1.50

H-63/U HEADSET 600 OHM BOOM MIC 100 OHM 14" CORD WITH PLUGS.

\$7.95 USED MIC. OR PHONE ELEMENTS ONLY, \$1 EA.



2000 OHM HEADSET, LIGHT WEIGHT HEADBAND, 7<sup>1</sup>/<sub>2</sub>" CORD W/SPADE LUGS THAT WIRE INTO CD-604 OR CD-605 CORD FOR 4000 OHM USED \$4.75 NEW \$8



HS-30 HEADSET 250 OHM IMPEDANCE HEARING AID TYPE HEADBAND, 7<sup>1</sup>/<sub>2</sub>" CORD W/SPADE LUGS

ELI-#978 NEW \$3.95



H-33/PT HANDSET PHONE 300 OHM, MIC 40 OHM W/CORD UG-77 PLUG & PUSH TO TALK SWITCH. USED \$6.95

HS-16 HEADSET OR EQUIVALENT (SIMILAR TO PIC.) 2000 OHMS WITH 6" "Y" CORD & METAL TIPS. USED, EXC., \$5.75

TS-9 HANDSET WITH PUSH TO TALK SWITCH (NOT, BUTTERFLY) WITH 3 COND. CORD 4" AND TERMINAL LUGS. NEW COND. \$4.95

TS-13 HANDSET, PUSH-TO-TALK AND CORD W/PL-68 & PL-55; P/O BO-659. \$12.

OPERATOR'S TYPE PHONE & ADJUSTABLE BOOM MICROPHONE HEADSET ASSY. RUBBER-COVERED ELEMENTS; PHONE 300 OHM, MIC 40 OHM, 4 FOOT CORD. H-81, H-144, OR SIMILAR.

W/UG-77 AND SWITCH, \$10.95

CX-1422/U "Y" CORD FOR HANDSETS. 10 FT. 10 INCHES LG. WITH PL-55 ON ONE LEG; PL-68 THE OTHER. UNUSED, \$4.50



WESTCLOX 202 KEY WITH ADJUSTABLE CONTACTS; COVER, CORD, AND PL-55. #W-202/5854, \$3.95 EA. -3/10.

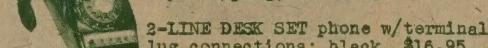
THIS IS THE KEY USED TO MAKE THE TWIN PADDLE KEY DESCRIBED IN QST ARTICLE OF FEB. 1973. THREE A-202 KEYS ARE REQUIRED, PLUS 3 BINDING POSTS AND BASE. ALSO SMALL HARDWARE & FINDINGS! IMA, OH 45804

## STANDARD TELEPHONE EQUIP.

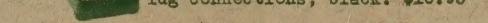
All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.



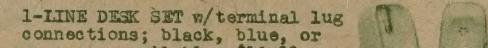
CALL COMMANDER SWITCHBOARDS, NE-6340-1 OR SIMILAR WITH PLUG; GRAY, GREEN, OR BEIGE COLORS: 11-LINE 1-HOLD \$22.95 17-LINE 1-HOLD \$28.95



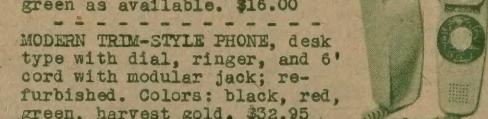
5-LINE 1-HOLD DESK SET PHONE STYLE W/PLUG; BLACK. \$20.95



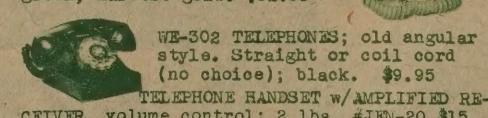
2-LINE DESK SET PHONE W/TERMINAL LUG CONNECTIONS; BLACK. \$16.95



1-LINE DESK SET W/TERMINAL LUG CONNECTIONS; BLACK, BLUE, OR GREEN AS AVAILABLE. \$16.00

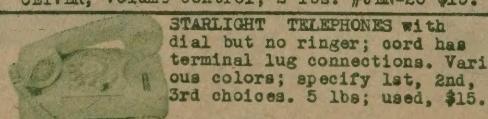


MODERN TRIM-STYLE PHONE, DESK TYPE WITH DIAL, RINGER, AND 6" CORD WITH MODULAR JACK; REFURBISHED. COLORS: BLACK, RED, GREEN, HARVEST GOLD. \$32.95

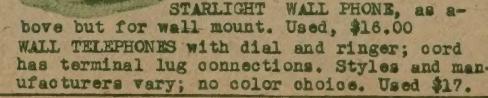


WE-302 TELEPHONES; OLD ANGULAR STYLE. STRAIGHT OR COIL CORD (NO CHOICE); BLACK. \$9.95

TELEPHONE HANDSET W/AMPLIFIED RECEIVER, VOLUME CONTROL; 2 LBS. #JEN-20 \$15.



STARLIGHT TELEPHONES WITH DIAL BUT NO RINGER; CORD HAS TERMINAL LUG CONNECTIONS. VARIOUS COLORS; SPECIFY 1ST, 2ND, 3RD CHOICES. 5 LBS; USED, \$15.



STARLIGHT WALL PHONE, AS ABOVE BUT FOR WALL MOUNT. USED, \$16.00

WALL TELEPHONES WITH DIAL AND RINGER; CORD HAS TERMINAL LUG CONNECTIONS. STYLES AND MANUFACTURERS VARY; NO COLOR CHOICE. USED \$17.

J-37 KEY WITH BRASS ADJUSTABLE CONTACTS, MOUNTED ON BAKELITE BASE 3" X 6" X 3/8" WITH CORD. USED \$7.95

BLACK \$5.95

MODERN TELEPHONE HANDSET W/4 COND. 15"-84" COIL CORD

NEW, PEARL GRAY, \$4.95



SOUNDPOWERED HEAD & CHEST SET

BLACK \$5.95

MODERN TELEPHONE HANDSET W/4 COND. 15"-84" COIL CORD

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NEW, PEARL GRAY, \$4.95

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BLACK \$5.95

MODERN TELEPHONE HANDSET W/4 COND. 15"-84" COIL CORD

NEW, PEARL GRAY, \$4.95

SOUNDPOWERED HEAD & CHEST SET

BLACK \$5.95

MODERN TELEPHONE HANDSET W/4 COND. 15"-84" COIL CORD

NEW, PEARL GRAY, \$4.95

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MODERN TELEPHONE HANDSET W/4 COND. 15"-84" COIL CORD

NEW, PEARL GRAY, \$4.95

SOUNDPOWERED HEAD & CHEST SET

**GENERAL TIMERS**  
TM-506 to right, 0-14 second indicator 110 volt 60 hz. motor repeat cycle used 6.95  
TM-229 same as above, no face plate, knob or dial. For 10 seconds oper. max. U \$5.

**TIMER BONANZA**

CARTRIDGE VISION TIMER CONTROL, 115 VAC 60 Hz motor w/SPDT contacts; upto 8 hr delay. Also 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT center-of-slide switches, transistors, rectifiers. \$1.95

STOVE TIMER CLOCK MECHANISM w/start-stop control dials. Grey face 5x4; style may vary. 115 VAC 60 Hz w/switch rated 230 VAC 30 amps. Knobs not original, but usable. 2 lbs; #Q155760, \$3.50

**CANVAS** BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.

CW-TRB ROLL BAG for tools, etc.; folds to 17"lx8½" w. Used, \$5.00

BG-175 BAG simil ar to above, 9"lgx 9½"hx7½". Used, no tears \$3

BG-1942 BAG, AS ABOVE WITH STRAP CLOSE COVER AND 8"hx 8"wx2½"D. \$2.50

BG-189 WALLET BAG, 10"hx5"wx 3"D w/2½" belt loops & cover w/snaps \$2.50 ea. 2 for \$4

CS-76 BAG, LIKE CW-189 BUT DZU COVER CLOSURE. 7"hx10"wx8"D. \$2.75

ST-19 CARRYING STRAP, 65" lg. X 2½" w/2" SWIVEL-EYE SNAP HOOK AND TONGUELESS-BAR BUCKLE NEAR ONE END TO ADJUST LENGTH. \$3.00

ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, \$2.50

ST-54 CARRYING HARNESS AS USED WITH BC-1000 TRANSCIVER; 38½" EXTENDED LENGTH, 14" WIDTH. ADJUSTABLE STRAPS AND SNAP HOOK, \$3.

ST-120 HARNESS FOR PRC-8-9 -10 RADIO SETS. SIMILAR TO ABOVE, SAME USE, \$5.00

CW-216 CARRYING BAG F/PRC ANTENNA AND H-33 HANDSET, COMPARTMENTS FOR EACH. 0/A 19" LONG WITH TOP 5" WIDE TAPERING TO 3" WIDE AT BOTTOM, 3½" DEEP. W/SNAP COVERS AND HANGER FOR AMMO BELT, \$6.00

CW-206 ROLL BAG FOR MS-116 SERIES MAST SECTIONS. COMPARTMENTS FOR GRC-SERIES SET ACCESSORIES. SNAP AND WEB STRAP CLOSURE. 0/A 40" LONG, 3"hx5"D. \$5.00

**MOTOR DRIVEN RELAY SPST**  
norm. open 115 v. 60 hz. 10 amps. cont. motor 115v 60 hz. non. sync. 3.8 w. 4/5 rpm. Cams can be set to set to make cont 30 to 60 seconds. Also has provision to bring out a shaft. size 2½lx2, 1 lb. #N17R-68292 unused \$6.00

**TIME-O-MATIC SIGN CONTROL**, 115 VAC 60 Hz. THREE CONTACTS RATED 15 AMP EACH. TWO ALTERNATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; OTHER BREAKS FOR 20 SEC. AT THE SAME TIME. THEN ALL THREE MAKE AND THE CYCLE REPEATS. SIZE: 3x5x6; SHPG. WT: 5 LBS. #53 K-155, \$4.95

**KEY SELECTOR**  
CONSISTS OF MANUAL CLOCK MECHANISM FOR SENDING 17 IMPULSES, CAN BE SET TO CALL ANYONE AT 78 STATIONS, SPST LEVER SWITCH 2x2x4; 4C5100.60A \$1.50

**SYNCHRON CLOCK MECHANISM**, No.610 110 v. 60 CYCLE 3 WATT 1 RPM #EC-129RB, WITH GEAR ASSY, NO RESET OR COVER. 2x2x2½; 4oz. \$1.35

**SYNCHRONOUS MOTOR**, 26 volt 60 cycle, 60 rpm, shaft 1x 1/16, motor 1½x2½ #1147 \$2

HANSEN SYNCHRON CLOCK MOTOR 110 VOLT 60 CYCLE 10 R.P.M. MODIFIED WITH SLEEVE OVER SHAFT TO 24 R.P.M. #A12-RC-12-62 \$1.50

CRAMER TIMER SWITCH ASSY. MODEL TC-60SEC, 230 v 60 cyc, SWITCH 5 AMP. CONT. 3.8 w. 4/5 RPM MOTOR. \$1.95

Thermal switch opens 30 sec. after cooling. Operate 130 vac. 2 ohm res. 1½x1, 20" leads. M-4199. \$1.50

SA-235/APA-57 CONTROL UNIT; Has a small Gyro connected to a contact arm that moves across resistance contact which will give four voltage readings in right or left positions. Also has 2PDT 24v. relay switches etc. 10x5x5; 4lbs. \$6.95

AS-207/CRT-3 ASSY w/300' #16 strand braided cadmium alloy copper wire on RL-48 reel and crank; mounted to aluminum door w/adjustable brake and snap swivel. Part of CRT-3 transmitter antenna which attached to kite or balloon. 2x4½ dia, 3 lbs. Used \$9.95 No door-damaged reels, 6.95 Wire only, \$4.95

**MOTOR DRIVEN RELAY UNIT** WITH 4/24 VDC REED AND 3/24 V. P&B 4PDT RELAYS. ALSO 1500 MFD 100 VDC AND 3000 MFD 25 VDC CAPACITORS; 6' 11-CONDUCTOR CABLE; AND SOLA TRANSFORMER WITH 24 V. AND 75 VDC OUTPUTS. NICE CASE: 6x5x10 (TOP), 3x5x10 (BASE); 15 LB. #RCU1, \$9.95

**RECORDING TAPE**  
MAGNETIC TAPE FOR MOST AUDIO RECORDERS, 10½" REEL; ½" WIDTH APPROX. 3600 FT LEADING MANUFACTURERS. WT: 2 LB AST3045 \$1.50 4 FOR \$5

**WIRE RECORDER MAGAZINE** for one hour w/wire on spool magnetizing head, timers switches etc. For use with Wire Recorder IC/VRW-7, on page #MX-303 5lbs \$9.95

**HEATING ELEMENTS**  
ROUND HEATING ELEMENT, 6" OUTER DIA. 3½" INNER DIA. ½" THICK. 115 VAC 500 WATT. NUT TERMINALS. #HSW-6, \$3. CHROMALOX, CARTRIDGE-TYPE C-4/4; 115 VAC 180 WATT. 2½x2"; 9" LEADS. \$1.50

LOOP COIL TYPE, 9" LONG; 115 VAC 30 W. #B83975, \$2.00 DOUBLE "U" LOOP COIL, 3" HIGH. 115 VAC 1000 WATT. CHROMALOX #2111-2, \$2.50

LONG DURATION TIMER WITH 115V RESET RELAY, 115V 60 Hz 1/16 RPH MOTOR. CAN ACTUATES SPDT MICRO SWITCH. 3½x2½. UNUSED \$2.95

ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"SQ FACE. 115V 60 Hz. SH WT 2 LB. UNUSED \$1.50

GEARS GEARS GEARS Gear box w/two pr beveled 45 gears and 20 other gears ½" to 1½" dia on bronze bearings 4x7x4½, 5 lbs #TUN/ARC45

AIRCRAFT COCKPIT EXTENSION LAMP #B-7; uses standard 2-contact auto bulb W/5½" spring retractable cord, dimmer, & ON-OFF sw. Plastic; 2 lbs

**WIND SPEED INDICATOR** using the #K101300 sel-syn listed on page 17. Design your own wind vane and indicator so that you can check wind direction from inside your house. #K101300 sel-syn, used \$4.

RT-58/ARC-12 CHANNEL SELECTOR AND MOTOR ASSY. 10 POSITION AUTOTUNE MOTOR DRIVEN 26.5 VDC WITH 2 SHAFTS 60 RPM ALSO RELAYS. 4½x6x3½; 5 LB. #5960-1 \$2.95

M30 INSTRUMENT LIGHT, plugs into M4A1 & M8A1 periscopes. Rheostat control, 22" cord, and uses 2-D batteries. 6½x1½, 2 lbs. Unused, \$4.

**30 RPM MOTOR**  
30 RPM GEARHEAD MOTOR, 24 VDC; Size: 2½x1-3/8. Shaft: 3/8" x 1/8" dia. Hayden #K45121-P8. NEW, \$6.95

**WIND SPEED INDICATOR** using a 24 VDC PM motor (p.17) as a generator, a 200 microammeter, and a resistor range scaler so that wind speed may be monitored indoors. We'll supply the PM motor and a 3½" rd. 0-200 scale (FS=200 ua) meter; you design the rest. #WS-MOTOR & METER, \$7.95

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPLACEMENT. \$5.95

I-81 & I-82 ARMATURES ONLY #H2716/A1, UNUSED, \$3.95 I-82 GLASS ONLY, \$2.00



## TUBE SOCKETS

4x150 SOCKET FAIR f/  
T-195 xmitter modtr  
4 $\frac{1}{2}$ x2 $\frac{1}{2}$ , #T195/4X150  
Removed, \$10.

4-125A



CERAMIC SOCKET,  
2-7/8" square; re-  
moved from equip-  
ment. JOHNSON 275, \$6.50 each.  
\*\*\*\*\*  
CHIMNEYS for SK606/610 or 124-  
110 (4X150/4CX250); used.  
#SK606/124-111, \$3.00 ea. 2/\$5.

OCTAL MOULDED 2 HOLE MTG. \$ .35

" " RING " .35

" CERAMIC (SPECIFY) .60

LOCTAL MOULDED 2 HOLE .35

CERAMIC TYPES 4,5,6 & 7 .65

CONTACTS STANDARD SIZES .65

MOULDED TYPES 4,5,6 & 7 .65

CONTACTS, STANDARD SIZES .45

MINIATURE MOULDED 7 & 9 .35

" CERAMIC 7 & 9 .50

SHEIELDS FOR MINIATURE TUBE .40

GIANT 4 CONTACT CERAMIC FOR

211/VT-4C, 872 ETC.

GE#ML7461594-G1 USED .49

GIANT 4 CONTACT CERAMIC FOR

715,718 ETC. JOHNSON 234 TYPE

STK #227684-98 UNUSED \$1.25

CERAMIC FOR 829 ETC. USED 1.25

" 832 ETC. USED 1.25

" 872 W/SHOULD 1.50

" 811/866 USED 1.25

\*\*\*\*\*

JOHNSON CERAMIC SOCKETS, unused

#214 for 750TL/1500T etc \$2.

#244 for 8008 etc. \$2.00

#247 for 829B, 7094 \$2.00

#123-209-200 for 811/866/211 tubes; with shoulder, \$2.50

#122-101-207 for 826/832/4D32; VHF septr, \$4.00

#124-0113 SCREEN GRID BYPASS

for 4X150/4CX250; 2000 pf, \$3.

TERMINAL BLOCKS--TELEPHONE TYPE

#TT4X10F4A, 4 rows

ten terminals each; total 40. Size:

3 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; unused \$4.25

#680069, 3 rows

26 removable ter-

minals; 78 total. 7x2 $\frac{1}{2}$ x3 \$4.50

4E9865 40 terminals, flat mount-

ing 8x3 $\frac{1}{2}$ x2 \$3.00

879-9661 3 rows of 30 terminals

one side wire wrap.

size 8-7/8x2-3/4x1-3/4 \$3.50

AIRCRAFT STYLE TERMINAL STRIPS

AN-3436-2-6 6 term. 4x7/8x11/16

6-32 studs on 19/32 centers .55

AN-3436-2-9 9 term 6x7/8x11/16

6-32 studs on 19/32 centers .75

AN-3436-4-10/10 term. 7-7/8x1x1

10-32 studs on 3/4 centers .80

AN-3436-4-16/10 term. 12 $\frac{1}{2}$ x1x1

10-32 studs on 3/4 centers \$1.25

5BK-22 BOX Consists of 3 AN-3436

terminal strips 13 term. each &

2 AN-3436 9 term. ea. The 10/32

studs extend thru. the phenolic

board and have solder terminals.

Board size 5 $\frac{1}{2}$ x8 $\frac{1}{2}$ x2; 4lbs \$2.75

TERMINAL STRIPS WITH CLIPPED WIRE

BARRIER TERM. STRIPS AVAILABLE,  
3/4, 1 & 1 $\frac{1}{2}$  WIDTHS, 2 TO 16 TERM  
INALS. TWO TERMINAL 20¢ EA. EACH  
ADDITIONAL TERMINAL 3¢. WE WILL  
SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERM  
INAL STRIPS.  
APPROX. 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ .  
6 TERM. 4 $\frac{1}{2}$ LGS \$1.50 12 TERM. W/TH  
8 " 6 " 2.00 SCREW DOWN  
12 " 8 " 3.00 HOLDER TYPE \$4

## Capacitors



MFD	VDC	SIZE	PRICE
4	400	2 $\frac{1}{2}$ x4x1	.75
2	600	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1	.65
4	600	3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1	.85
6	600	4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1	1.00
7	600	4x4x2	1.10
10	600	5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x1	1.35

1.5	1000	4x1 $\frac{1}{2}$ x1	.85
2	1000	4x1 $\frac{1}{2}$ x1	.95
4	1000	4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1	1.10
15	1000	5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2	1.85
15	1000	(dented)	1.25
Dual	15 mf	1000 V/6 mf	
	600	4x3x $\frac{1}{2}$	2.50
2	1500	4x2 $\frac{1}{2}$ x1	1.15
4	1500	4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1	1.95
1	2000	3x2x1	1.25
4	2000	5x3x2	4.00
1	2500	4 $\frac{1}{2}$ x3x1	1.50
0.6	3000	6x2x1	1.25
1	3000	4 $\frac{1}{2}$ x3x2	1.35
0.1	3500	4 $\frac{1}{2}$ x1-3/8 d	1.00
53	3500	12x4 $\frac{1}{2}$ x4	25.00
1	4000	7x3 $\frac{1}{2}$ x1	2.75
2	4000	5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x1	5.50
2x.01	4500	5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x1	2.00
1	7500	14x12 $\frac{1}{2}$ x4	14.00

## COMPUTER GRADE

MFD	VDC	SIZE	PRICE	
24000	3	4x3	.75	
23000	7	5 $\frac{1}{2}$ x1 $\frac{1}{2}$	.60	
		Bank of five	2.25	
61000	10	4x2 $\frac{1}{2}$	1.50	
150000	10	5 $\frac{1}{2}$ x3	3.25	
	2000	15	4 $\frac{1}{2}$ x1 $\frac{1}{2}$	.75
73000	15	4 $\frac{1}{2}$ x3	3.00	
40000	20	4 $\frac{1}{2}$ x2 $\frac{1}{2}$	2.75	
52000	20	6x3	2.85	
1100	25	4x1 $\frac{1}{2}$	.75	
44000	25	6x3	3.00	
24000	30	4x2 $\frac{1}{2}$	2.25	
25000	30	4 $\frac{1}{2}$ x3	2.25	
54000	30	6x3	4.00	
18000	35	4x3	2.50	
25000	35	4 $\frac{1}{2}$ x2 $\frac{1}{2}$	2.75	
37500	35	6x3	3.75	
9400	40	4 $\frac{1}{2}$ x1 $\frac{1}{2}$	2.00	
16000	40	4x3	2.50	
30000	40	4 $\frac{1}{2}$ x3	3.00	
48000	40	5x3	4.00	
51000	40	4 $\frac{1}{2}$ x3	4.25	
3000	50	4 $\frac{1}{2}$ x1 $\frac{1}{2}$	1.25	
12500	50	4x3	2.25	
23200	50	4x3	3.25	
34000	50	5 $\frac{1}{2}$ x3	4.00	
3500	52.5	4x2 dents	1.25	
3500	55	4x3	2.00	
13500	60	4x3	3.00	
30000	60	6x3	5.00	
950	75	4x3	2.00	
16800	75	4 $\frac{1}{2}$ x2 $\frac{1}{2}$	4.75	
14000	99	4x2 dents	1.00	
900	165	4x2 dents	1.00	
1250	180	4 $\frac{1}{2}$ x2	3.00	
500	200	4 $\frac{1}{2}$ x2	2.50	
500	200	4x2 used	1.50	
200	250	3 $\frac{1}{2}$ x1 $\frac{1}{2}$	1.35	
4300	250	5 $\frac{1}{2}$ x3	8.00	

\*\*\*\*\*

BUY 5 COMPUTER GRADES of

SAME rating, take 20% off.

PHOTO FLASH TYPE, 600 mfd

360 VDC, 3 $\frac{1}{2}$ x1 \$2.25 5/\$10.

MICA CAPACITORS

USED .01 600 55

IN RF power .02 600 55

circuits. .022 1200 60

JAN CM-size .0004 2500 55

less than .006 2500 55

1 $\frac{1}{2}$ rl-3/8 .016 2500 60

\$1.25; 5/\$5. 35 pf 3500 55

.01 1200 45

LARGER BROWN MICA CAPACI-

TORS, various values as

available--write your need

F2L size \$3.75; F3L \$6.00

## ROTARY SWITCHES

Gold flash ceramic switch  
2 deck 12-position contacts  
1 $\frac{1}{2}$ dia. 1-3/4" dp.  
889-5718 \$4.50

ROTARY SWITCH, 2-DECK. ONE  
4PDT MOMENTARY BOTH SIDES;  
OTHER 2PDT MOM. B.S. AND  
IPST. MOM. 1-3/8" dia. CER-

AMIC. #329825-20, \$1.00

MINI-ROTARY, 1-pole 3-pos.  
shorting, 1" dia; 1/8" dia  
shaft. No hardware.

#LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER  
SWITCH, 18 POSITION,  
ICN, NUMBERED, 2

HOLE MTG. HORIZONTAL  
OR VERTICAL,

2 $\frac{1}{2}$ x3 $\frac{1}{8}$ " #960 NEW \$1.25

SAME AS ABOVE 10 POSITION  
2 $\frac{1}{2}$ x3 $\frac{1}{8}$ " #980 NEW \$ .75

2-DECK 5-POS w/OFF-ON swi-

tch 2/SPST 8 A 125 V. 2 $\frac{1}{2}$ x1

1 $\frac{1}{2}$ , 4" d shft. #2D5PSW \$3.

ROTARY SWITCH 10 POLE, 4  
POS. 5 DECK. 3 $\frac{1}{2}$ x1 $\frac{1}{2}$ .

RM-39/31.9 RE-MOVED \$1.00

ANTENNA COUPLING  
SWITCH, 6-position, 1-pole.

2 $\frac{1}{2}$ x3 $\frac{1}{8}$ " dia. Cer-

amic, bar knob.

Removed, \$3.95

Rotary switch one deck 17-

position, one tie-deck. 1 $\frac{1}{2}$ "

x1. silver pl. SW-249 \$2

1-POLE 12-POS non-shorting;

1 $\frac{1}{2}$  dia X 2" lg shaft.

Mallory #32112J NEW \$1.25

1-POLE 5 POSITION, CON-

TINUOUS TURN, 2"

dia. Zinc-silver contacts.

2 $\frac{1}{2}$ " dia shft.

Unused, \$3.00

Miniture tap switch 1 pole

7-position rated 1 amp.

1 $\frac{1}{2}$ ". Grayhill 7 pps. \$2.00

Power on/off sw. rated 3a.

125v. ac/dc w/2-gang pot.

one meg. & 600 ohm concentric.

1 $\frac{1}{2}$ x1 $\frac{1}{2}$  VC-0058 \$1.50

Ceramic 5 pole 3-position,  
2 deck rotary 2" x $\frac{1}{2}$ ". used

Re-moved S-602/13 \$1.50

Ceramic 1 pole 12-position  
rotary sw. 1 $\frac{1}{2}$ " dia. w/stop.

re-moved S-601/13 \$2.00

ROTARY ACTUATOR  
will operate

12-28 vdc

12 position

30 degrees

each.

2 $\frac{1}{2}$ " shaft for mtg. & rods

for wafers, no wafers with

unit. 2 $\frac{1}{2}$ x3x1 $\frac{1}{4}$ ; 1 lb.

MX167869G1 or equiv. \$2.00

ANTENNA CIRCUIT SWITCH  
100 WATT

3/MAKE

3/BREAK

4 $\frac{1}{2}$ x2 $\frac{1}{2}$  IN.

SIZE:

4 $\frac{1}{2}$ x2 $\frac{1}{2}$  IN.

2.50

ROTARY WAFER SWITCH  
six different types

Multi-decks and

contacts \$1.25

BATHTUB CONDENSERS  
KIT 1 to 1 mfd up

to 600 VDC. Various

types. 25 for \$1.00

APPX. 200 PCS. \$2.00

MORE CAPACITORS

## HIGH VOLTAGE TRANSFORMERS

PRI	Hz	SECONDARY	SIZE	WT	STOCK #	PRICE
117v	60Hz	375v 40MA	2/6.3 .6A 2½x4x2½	4lb	#24003	\$3.95
115v	60Hz	470vct 40ma	4x2½x2½	8lb	682-3023	\$5.95
6.3vac	2½x5v	2½x2½				
115	60	350 CT/26 MA	2½x3½x3	4	647-6762	3.95
		5/3.0 A				
115v	60Hz	885/545 600ma	6½x6½x6	33 lbs	#4327	\$12.95
115v	60Hz	810v 220ma	4x3½x4½	6 lbs	#3252	\$9.95
6.3vct	4a/5v 3a					
115	60	110v100MA,50VCT	4½x3½x3½	10	KAL#2334	6.95
.5A,25VCT.	.15A.					
115	60	600 VCT 60 ma	2½x4x2½	6 lbs	#1831	5.95
		6.3 v 1.5 amps				
115	50-	550 VCT 12 ma	2½x4x2½	5 lbs	#37711	3.95
400 Hz	60	VCT 300 ma	6.3 V 600 ma			
108/115	700	VCT 50 ma	3½x5x3½	11 lbs	#12314	5.95
121	VAC	60 Hz 5 V 2 A,	6.3 VCT 3.5 A			
115	60	820 VCT 120 ma	4½x4½x4	10	#7629831	6.95
		5 V 2 amps				
115	50-	700 VCT 70 ma case	4x5½x4	12	#3C1538	4.95
1200	grnd	tapped 65/400V 10 ma,	5V 2A,	6.3V 4 A.		
120	60	6.4/1A 3/6.4-.3A	2½x3x2	1	645-0612	2.25
115	60	27V4.3A/2.6V3A.	5x5x5	15	D161915	9.95
4.1vb.	1vb.4v3a.					
115/60HZ	360V TAPS/7/332/345V.	125MA 228V.015				
		6.6VCT 4.2A	4x5x3½	12LBS.	#7489394	\$3.95
115/230	60	175 V 85 ma	2½x4x2½	5	#2Z9612-382	4.95
or 50.8 V	95 Hz	vibrator input				
115/230	V	800 VCT 120 MA;	5x5x4½x4½	20	KS-9779	6.95
50-60 Hz	6.4 V 4.5 A;	5 V 2 A;	6.3 V 0.6 A			
115/60HZ	700VCT	.050A 5v3A 4½x3½x3;	9	LBS	#TF1A03Y\$3.95	
115 V	60 Hz	650 VCT 20 MA;	3½x2½x4½	10	#8734	\$2.95
		6.3 VCT 2.5 A.				
115	60	6780 V 60 ma	11½x8x6	35	#1000A-358	\$25.
(25 KV test,	insulators 3½" high)					
115v	60hz	110v @ 30ma	3½x2½x2½	31 lbs	#5569	\$3.95
		6.3 @ 3.2a.				
115	60	2000 VCT 500 ma	7x5½x5	32	#HW-201P	32.50
115/230	660CT@60MA	RD3½x4½	8	2Z9608-110	5.95	
50/60	CY	6.3 5 A (FOR TG-34 KEYER)				
115	60	150vG 500 MA.	3½x4½x4½	11	T127J387	5.95
6.3v@3A	6.3v@1A.					
115	60	510VCT @ 100 MA.	3x4½x3½	7	2Z9612.21	3.95

## LOW VOLTAGE TRANSFORMERS

PRI	Hz	SECONDARY	SIZE	WT	STOCK #	PRICE
115v	60Hz	6v/1A 45VCT/.5A	3x2½x2½	2LB	#1461312	\$2.95
115	60	6 VCT 1.5 amp	2½x2½x2½	3	#518-3847	3.50
115v	60Hz	6.3v@15a/two	5x4x3½	11 lbs	#4094	\$20.00
6.3v@6/two-5@6a./5@2/5@3.						
117v	60Hz	55v 4 60ma	3½x2½x2½	4lb	5950-8419	\$2.95
117v	60Hz	5v@6a(1500rms)	4x3x3½	9 "	ORD762812	\$2.50
115v	60Hz	6.5v@2a/6.5v@2a/	6½x4x2	20 "	647-6219	\$9.95
6.5v@twinle/ two 6.5vct@6a						
220v	60Hz	2.5v@6a	4½x3½x3½	9	THER-8708	\$3.95
5v@ 3a						
115v	60 Hz	6.3vct 1A.	2½x1½x1½	8oz.	#118667	\$2.95
115	60	TWO 30 CT/15MA	2½x2½x3	5	648-4774	4.95
6.3/4.0 A						
115	60	6 V 15 A/1.5 V 200 ma	3½x3½x3	8	M-1018A	\$4.
115	50-400	34/2.7 A	4½x4½x4	14	853-6026	\$4.50
3.0/250 MA						
115	50/60	51 1.5 A RD.4x2½	6	869-2849	\$4.95	
5 1.0 A						
120v	6. 3/6.3vct	.6A	2½x3½x2½	1LB	TF1AOIYY	\$2.95
125		8.5 TAP 3.5V	1A			
117	60	31v@3.27A,15.5v	3½x4½x4½	10	5950-9195	\$3.95
.51A,23VCT@2.1A.						
24v	0.85 A					
215 V	60 Hz	2.5 VCT 10 A.;	4½x3½x3½	12,	#2253	\$2.95

PRI: 115 v. 60Hz  
SEC: 1500v 300mA  
TAPPED 400 v.  
4½x3½x4½; 16LBS.  
#J-6035, \$12.95

PRI: 115 V 60CYC  
SEC: 850CT 280MA  
280CT 10MA  
5V 5 A.  
6.3 V 600MA  
36 V 5 A.  
5½x5½x7½; 28 LBS.  
#5950-646-3943  
\$6.95

PRI: 115 V 60 CYC  
PRIMARY  
Sec:  
512 VCT  
90 MA  
3x3½x2½  
4 lbs. #SMB-202958  
Used, \$4.50  
#SMB-202912, 448 V  
CT 20 ma; 2x3½x2½  
3 lbs. Used \$2.50

PRI: 115 VAC 60 Hz  
Made for ARC-5,  
500 VCT 80 ma  
ARC-type 12,  
24 VCT 2 amps  
6.3 V 3 amps  
2½x3½x2½, 4 lbs sh  
ers. NEW \$12.95

## ART-13

### MODULATION

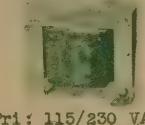
ART-13 MODULATION  
TRANSFORMER 50 WATT  
300-4000 RESPONSE  
± 2DB, PRI. TO SEC.  
1/.695, PRI. TO  
SEC. 2 1/2, 254, Z  
PRI. 15000 Z SEC. I  
7300, TEST 4000 V.

4½x3½x2½; 4 LBS.  
COLLINS#677N252  
REMOVED \$3.95



PRI: 115 V 50/60  
SEC: 3/17 V 5 AMP  
28 V. 10  
WITH CAPACITOR  
REQ. VENTILATION  
4½x3½x7½; 20 LBS.  
GE- 9T91A4074  
\$14.95

PRI: 115 V 50/60  
SEC: 100 VCT 1.5A  
20 " 3.0A  
2/20 V. 3.0A  
35 V. 5.0A  
WITH CAPACITOR  
GE-9T91A4069  
REQ. VENTILATION  
5½x6x7½; 23 LBS.  
\$9.95



PRI: 115/230 VAC  
50-60 Hz  
Sec: (12 V 14 A.  
by wiring 12 V  
secondaries in  
parallel) or  
12 V 9 A, 12 V  
3.2 A, 12 V 2  
amps; also 44 V  
2.5 amps.  
4½x4x3½; 14lbs.  
#P-6012 new  
\$15



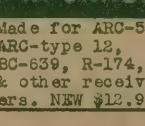
PRI: 115 volt 60 cycle  
Sec: 24 vct @ 15 amps  
or 12 vdc 30 amps full  
wave. Runs hot; venti-  
lation required.  
4½x4x3½; 14lbs.  
#P-6012 new  
\$15



PRI: 115 VAC 60 Hz  
Sec: 30 V 4 AMPS.  
3x3½x3½; 5 LBS. NEW  
#CARSON-4892 \$4.95

PRI: 115 volt 60 cycle  
Sec: 24 vct @ 15 amps  
or 12 vdc 30 amps full  
wave. Runs hot; venti-  
lation required.  
4½x4x3½; 14lbs.  
#P-6012 new  
\$15

PRI: 115 VAC 60 Hz  
Sec: 460 VCT 50 ma  
6.3 VCT 2 amps  
3x2½x2½ 4 lb  
#7514 \$3.



PRI: 115 VAC 60 Hz  
Sec: 30 V 4 AMPS.  
3x3½x3½; 5 LBS. NEW  
#CARSON-4892 \$4.95

## ART-13

### MODULATION

ART-13 MODULATION  
TRANSFORMER 50 WATT  
300-4000 RESPONSE  
± 2DB, PRI. TO SEC.  
1/.695, PRI. TO  
SEC. 2 1/2, 254, Z  
PRI. 15000 Z SEC. I  
7300, TEST 4000 V.

4½x3½x2½; 10 LBS.  
#43278 \$4.95

Sec: 250 V tapped 50  
V 120 ma, 4 KV test.  
4½x6x3½; 9 lbs sh.  
#BP-18587 used \$6.95

Sec: 30 vct 560 ma 40  
vct 450 ma 2½x2½x2½;  
2 lbs. #401-6 \$3.00

Sec: 450 vct 250 MA.  
40 VCT 1 A. 2/6 V 1A.  
WITH CAPACITOR  
REQ. VENTILATION  
4½x3½x7½; 20 LBS.  
GE- 9T91A4074  
\$14.95

Sec: 50v@100MA/3v@100  
MA/40v@1.5A/40v@200MA  
SIZE: 2½x2½x2½; 2½ LBS.  
URC#372993-1 \$3.95

Sec: 2/80 VCT 150 ma  
each with 26 VCT 100  
ma taps; 80 VCT 100  
ma. 1780 VRMS test.  
4½x6x3½; 10 lbs sh.  
#U-7400, \$4.95

## ART-13

### MODULATION

ART-13 MODULATION  
TRANSFORMER 50 WATT  
300-4000 RESPONSE  
± 2DB, PRI. TO SEC.  
1/.695, PRI. TO  
SEC. 2 1/2, 254, Z  
PRI. 15000 Z SEC. I  
7300, TEST 4000 V.

4½x3½x2½; 10 LBS.  
#43278 \$4.95

Sec: 240A/6.3@100MA  
24@100MA. SIZE: 3½x3x3  
4 LB. URC-LT-646\$4.95

Sec: 30 vct 200 MA.  
45 vct 100 MA/2.5V30M.  
SIZE: 2½x1½x2½; 1 LB.  
URC#374501-1 \$2.95

Sec: 2/80 VCT 150 ma  
each with 26 VCT 100  
ma taps; 80 VCT 100  
ma. 1780 VRMS test.  
4½x6x3½; 10 lbs sh.  
#U-7400, \$4.95

Sec: 125 V tapped 90  
volts 3 amp. 4x4x3½;  
10 lbs. #225-3992, \$12.

Sec: 125 VCT 3 A.

Sec: 22 VCT 1.5 A.

PRI: 100, 115 v. 60 Hz.  
Sec: 22 VCT 3 A.  
80 VCT @ 1½".  
SIZE: 3½x3x4; WT. 8 LB.  
#S92890015 \$4.95

Sec: 18 V 5 amps  
3x2½x2½; 5 lbs sh wt.  
#SK710202-4, \$0.95

VIBRATOR TRANSFORMER  
PRI: 12.6 V 115 Hz  
Sec: 160 V 160 ma  
2 1/2x8x2½x3½; 4 lbs  
#5950-243-5679, \$4.95

Pri: 115 volt 60 cyc  
Sec: 30 vct 10 amps  
3½x3½x3½; 7 lbs.  
#80-120003-2 \$10.95

Pri: 115 volt 60 cyc  
Sec: 30 vct 15 amps  
4½x5x3½; 15lbs.  
#80-120002-01 \$16.95

PRI: 115 VOLT 60 Hz.  
SEC: 35 VCT @ 1 AMP.  
6 v. @ 300 MA.  
SIZE: 2½x2½x3; WT. 3 LB.  
URC#1341155-2 \$2.50

Pri: 115 VAC 60 Hz  
Sec: 45 VCT 500 ma  
6 V 500 ma  
SIZE: 3½x2½x2½; 2 lbs.  
URC#203A6725-10 \$2.50

Pri: 115 VAC 60 Hz  
Sec: 500 VCT 100 ma  
6.3 V 1 amp  
SIZE: 2½x2½x3; 4 lbs.  
#URC8316213 \$3.95

Sec: 500vct 35MA/24V.9A  
6.3v.9A/6.3V 3/4LB.  
3x3x3½; #RM13-317 \$2.95

# TRANSFORMERS

Pri: 105/115/125  
VAC 5-60 Hz  
Sec: 500 VCT 200  
ma, 6.3 V 12 A,  
6.3 V 1 A; 3 $\frac{1}{2}$ x5  
x4, 12 lbs sh.  
#784-0990, \$9.95

**32VCT 8A**  
Pri: 105/110/115  
50-60 Hz  
Sec: 32 VCT 8 amp  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ , 6 lbs.  
North 6012143 \$6.



PRI: 115 V 60 Hz  
SEC: 15 V 3 AMPS;  
13 V 2 A;  
6.3 V 7 A.  
WITH CAPACITOR,  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 13 LBS.  
#PV-175-9, \$.95

PRI: 115 V 60 Hz  
SEC: 12.5 V 2 AMP  
150 V 2 AMPS  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 13 LBS  
#773605, \$.95

## AUDIO

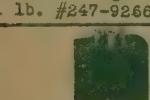
Pri: 600 ohm CT  
Sec: 4000 ohm tap-  
ped 600 ohm, 150  
ohm 50 ma; 200-  
4000 Hz. 2 $\frac{1}{2}$ lb d.  
#646-0380 NEW \$.3.

Pri: 8000 ohms  
Sec: 4-8-16-150-  
600 ohms, 200 to  
3500 Hz 5 watts.  
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 3 lbs.  
#COH-2/TRC29 \$.50

As above except  
sec 150-600 ohms;  
#SMB-204460 \$.4.50

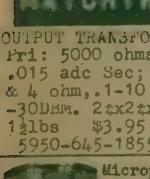
**SPEAKER MATCHING**  
Pri: 2500-3000-  
3500-4000 ohms  
for use with 4, 8,  
or 15 ohm speakers;  
20 watts max. 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 3 lbs sh.  
Bogen T25, NEW \$.5.

Pri: 7000 ohms  
Sec: 4000 ohms tap-  
ped 250 ohms; 200-  
8000 Hz. 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ ,  
1 lb. #247-9266 \$.2.



**MICROPHONE TRANS**  
PRI: 40 OHMS  
SEC: 50000"  
SIZE: 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x2  
WT: 2 oz.  
2Z9986-2/RM-12  
PRICE: 75¢

**AUDIO**  
**MATCHING**  
OUTPUT TRANSFORMER  
Pri: 5000 ohms  
.015 adc Sec; 200  
& 4 ohm, 1-10 kc  
-300M. 2 $\frac{1}{2}$ x2x3  
12 lbs \$3.95  
5950-645-1855



Microphone  
Transformer  
Pri: 1 ohm  
Sec: 2000  
1 $\frac{1}{2}$ x2 $\frac{1}{2}$   
STWZ9666A  
Price: \$.59



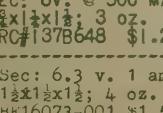
**I-177**  
**TUBE CHECKER**  
**TRANSFORMER**  
SIZE: 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4, 5 $\frac{1}{2}$ LBS  
STK# 229613.667  
PRICE: \$4.95



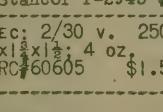
PRI: 26/115/230 V  
60 Hz.  
SEC: 13 V. 8 AMPS  
TWO 230V WINDINGS  
TO SUPPLY 370 VDC  
600 MA.  
5 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5; 22 LBS.  
229613.514 \$7.95



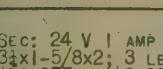
PRI: 115/230V 60Hz  
SEC: 5 VCT 10 AMP.  
3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3; 8 LBS.  
#7346 \$4.95



ALL PRIMARIES  
115 VOLTS 60 CYCLE  
SEC: 6v. @ 500 MA.  
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{2}$ ; 3 oz.  
URC#1378648 \$1.25



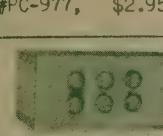
Sec: 6.3 v. 1 amp  
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{2}$ ; 4 oz.  
BET16073-001 \$1.50



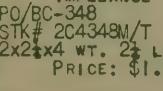
Sec: 6.3 VCT 2 amp  
2 $\frac{1}{2}$ x2x $\frac{1}{2}$ , 1 lb.  
Stancor P-2945 \$.3.



Sec: 2/30 v. 250 m  
2 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ ; 4 oz.  
URC#60605 \$1.50



SEC: 13 V. 1.5 A  
3 $\frac{1}{2}$ x1 $\frac{1}{2}$ x2; 2 LBS.  
#ED1-0-2, \$2.25



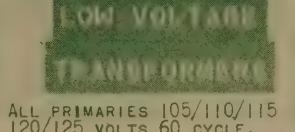
SEC: 24 V 1 AMP AC  
3 $\frac{1}{2}$ x1-5/8x2; 3 LBS.  
#PC-977, \$2.95



AUDIO OUTPUT TRANS  
PRI: 450 OHMS  
SEC: 300/4000 OHMS  
IMPEDANCE  
PO/BC-348  
STK# 204348M/T  
2x2 $\frac{1}{2}$ x4 WT. 2 $\frac{1}{2}$  LBS.  
PRICE: \$1.00



OUTPUT  
TRANSFORMER  
NP/NS-1.77/6.5, 50  
TO 5000 CYC. 5MA.  
SIZE: 2x2x2  
GEM 7465623-1  
PRICE: \$.75



ALL PRIMARIES 105/110/115  
120/125 VOLTS 60 CYCLE.

SEC: 6.6 v. 18 AMP  
3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x4; 12 LBS.  
GE#9T35Y159 \$4.95

SEC: 6.3V 2.75A/6.3  
V 5.5A, 2.5 KV test  
5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 #7829805 \$6.

SEC: 6.3 V. 5 amp. 8 KV ins.  
ulat. 5 $\frac{1}{2}$ x3x3; 7 lbs.  
#059-2414 \$5.95

SEC: 5 v. 6 amp. 2000v. test  
3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 1lb. ORD#7829812 \$4

SEC: 8.3 VCT 3 A 2.5 KV tes  
3 $\frac{1}{2}$ x2x2 $\frac{1}{2}$ , 3 lbs. #P-6446 \$4.

SEC: 6.3-3.1a/6.3Q2.5a/6.3  
0.45a/6.3-.30a/2-5.002 amp.  
TP1A01JA \$3.95

SEC: 5vct @ 4a/5vbt @ 2a/  
6.3V @ 1a. 3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3; 6 lbs.  
Bendix L127336 \$3.95

SEC: 6.3 VCT 5 amps 300 WV;  
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3/8x2-3/8, 5 lbs sh.  
#5950-539-6765. NEW \$4.95

SEC: 12.6 VCT 2 A, 1.5KVrms  
2 $\frac{1}{2}$ x2x2, 2 lbs. #P-8130, \$4.

SEC: 6.5 vct @ 3.4a/6.5vct  
@ 15.7a/5.2v @ 6.3a/5.2v @  
2.1a. 4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x6; 15 lbs.  
TRC-SMB-202910 \$6.95

PRI: 220 volt 60 hz.  
Sec: 6.3 \* 20 amp.  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x5; 8lb. XAL16809 \$7.95

PRI: 210/220/230/240v 60 hz.  
Sec: 5 VCT 10 amp. Stand of  
insul: 1 $\frac{1}{2}$ ". Wilcox 96C Trans  
5x4 $\frac{1}{2}$ x5; 10 lb.  
2Z9600.42 Kenyo 10694 \$10

Pri: 115 VAC 60 Hz  
Sec: 850 VCT 225 ma CT grnd  
500 VCT 125 ma, 2/5 V 3 A,  
6.3 V 2.5 A, 6.3 V 1.25 A,  
6.3 V 11 A; 6 $\frac{1}{2}$ x6 $\frac{1}{2}$ x5; 25  
lbs. #188-7474, \$9.95

PRI: 115 V. 60 Hz.  
SEC: 900 VCT 130 MA.  
5x5x3 $\frac{1}{2}$ ; 13Lbs. Z2Z9612-38 \$8

PRI: 115 VAC 60 Hz.  
SEC: 2/150 V. 940 MA  
5 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 9 LBS. #U7450 \$10.

**MICROPHONE TRANSFORMER**  
PRI: IMPEDANCE 50 OHM 30MA  
SEC: IMPEDANCE 500 OHM  
FREQ. RESPONSE 400-1900CPS  
SIZE: 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{2}$ ; WT: 8 OZ.  
\$1.00 T-204/PP-115

**LINE TRANSFORMER INPUT**  
PRI: IMPEDANCE 500 OHM CT  
SEC: " 500 "  
FREQ. RESPONSE 600-12000CP  
SIZE: 2 $\frac{1}{2}$ x2x2x2; WT: 1 LB.  
T-203/PP-115 \$1.50

PRI: 115 VAC 60 Hz  
Sec: 6.5 VCT 24 A, 6.5 VCT  
6 A, 6.5 VCT 6.5 A, 6.5  
VCT 1 A; 6 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 22 lbs.  
#5950-647-6219, \$14.95

PRI: 115 VAC 60 Hz  
Sec: 300 V 500 ma, 6 V 2.5  
amps, 5 V 1.5 A; 3 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4,  
14 lbs. #SKN-300-500 \$7.95

**ISOLATION TRANSFORMER**, 110/115/  
120/210/220  
primary;  
Sec: 135 V 1 A  
6.3 V 5 amps  
Switch taps secondary 150/  
125/100/75/50 V no load  
from 115 V input. 3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x4 $\frac{1}{2}$ ,  
7 lbs. #P-1261875, \$7.95



DC POWER SUPPLY  
PRI: 115v 60 CY  
SEC: -8000 v.

-25-1 MA.  
-120v @ 15 MA  
-24v @ 12 A  
-16.v @ 45 A  
SIZE: 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; WT: 15 LBS.  
#GE9T63Y2280G03 \$14.95

PRI: 105/110/115/  
120/125 VAC 60 Hz  
Sec: 1120 VCT 75  
MA, 365 V 150 MA  
tapped @ 535 V  
3 $\frac{1}{2}$ x5x3, 8 lbs sh.  
#TF1A02JA-R \$5.95

Sec: 2800 V tapped 1600 V  
120 ma; 5-7/8x7-3/8x4 $\frac{1}{2}$ , 25  
lbs sh. #RP18584, \$14.95

PRI: 115 VAC 60 Hz  
Sec: 900 VCT 250  
MA  
25-27VDC 3.5 A  
AMPS; 5x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 11 LBS.  
#22662 \$6.95

Sec: 24 VDC 5 AMPS  
SIZE: 4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x5 15LB  
#22661-1 \$9.95

PRI: 115/230 VAC 60 Hz  
Sec: 118 VAC 120 VA  
5x7 $\frac{1}{2}$ x3, 12 lbs sh.  
#20-13-112 NEW \$27.50

PRI: 100-130 VAC 60 Hz  
Sec: 6.5 V 25 amps  
11x5 $\frac{1}{2}$ x5 $\frac{1}{2}$ , 28 lbs sh.  
Sola #302237, \$12.50

Pri: 115V 60 Hz  
Sec: 350. vct 25 ma  
5.0 3 amp  
3 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ; 3 $\frac{1}{2}$  lbs  
2Z9613.77 \$3.95

Pri: 115/230 VAC  
50-1000 Hz  
Sec: 310 V 100 ma, 3/6.3  
8 amps, 6.3 V 10 A  
Size: 5x $\frac{1}{2}$ x4, 14 lbs.  
NEC#110001, removed \$10

Pri: 115/230 V 60 Hz  
Sec: 920 VCT 100 ma  
4/6.3 V 8 amps, 5 V  
6 A, 5 V 2 amps  
5x5x6, 20 lbs sh.  
Paeco #910-96R \$12.

As above except 960 VCT  
500 ma secondary only.  
Paeco #910-5-95R \$15.95

Pri: 115/230 VAC 60 Hz  
Sec: 600 VCT 100 ma,  
13 V 1 amp tapped  
6 A, 5 V 2 amps  
5x5x6, 7 lbs sh.  
#T2/URM-48, \$7.95

**NOISE FILTERS**

RADIO INTERFERENCE  
250 VOLTS AC/DC  
3 AMPS, F-31/U  
3 $\frac{1}{2}$ x4x1 $\frac{1}{2}$ , 12 oz.  
SNSN N17S050968-  
5555. \$3.95

FILTRON FA-380 3x10 AMPS.  
28 vpc 3x3x1 $\frac{1}{2}$  \$2.50

CORNELL-DUBILIER NF10501  
4 AMP 50VDC 2 $\frac{1}{2}$ x2x2 $\frac{1}{2}$  \$2.00

TOBE FILTERETTE I426, 7.5  
AMPS 500 VDC 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ x1 $\frac{1}{2}$  \$2

TOBE 1163FL-23 10 AMP 30 V  
DC 2x2x1, W/BRACKET \$2

SPRAGUE JX-5IK 10 AMPS 100  
VDC. SIZE 2x2x1 $\frac{1}{2}$ ; \$2

PRI: 110/220/440  
50/60 CYCLE  
SEC: 24 V 6 AMP.  
6 V 1.9 A.

CIRCUIT RESET FOR  
4 $\frac{1}{2}$ " SQ. BX. MTG.  
7x4 $\frac{1}{2}$ x5; 10 LBS.  
FOSTERDI 1586 \$6.95

PLUG-IN TRANSFORMER  
PRI: 115V 60Hz  
SEC: 12.6VCT 2 AMP  
1500 V TEST, 2 $\frac{1}{2}$ x2x2  
used #P-8130 \$1.95

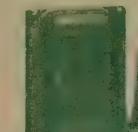
PRI: 115 V 60 Hz  
Sec: 12.6vct 2 amp  
1500 v. test, 2 $\frac{1}{2}$ x2x2  
used #P-8130 \$1.95

PRI: 110/220/440  
50/60 CYCLE  
SEC: 24 V 6 AMP.  
6 V 1.9 A.

CIRCUIT RESET FOR  
4 $\frac{1}{2}$ " SQ. BX. MTG.  
7x4 $\frac{1}{2}$ x5; 10 LBS.  
FOSTERDI 1586 \$6.95

PRI: 105/115/125  
VAC 60-400 Hz  
Sec: 375 V 40 ma  
2/6.3 V 0.6 A  
3 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4, 5 lbs.  
#645-5761 \$2.95

PRI: 105/115/125  
VAC 60-400 Hz  
Sec: 375 V 40 ma  
2/6.3 V 0.6 A  
3 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4, 5 lbs.  
#645-5761 \$2.95



CONSTANT VOLTAGE  
TRANSFORMERS: 95  
TO 130 VAC 60 Hz  
PRIMARY; WITH  
CAPACITORS. SOLA  
AND OTHER MFGS.  
REMOVED FROM E-  
QUIPMENT.

Sec: 6.3vQ2.38a  
ac 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ; 8lb  
581-5333 \$5.95

Sec: 24 VDC 5 AMPS  
SIZE: 4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x5 15LB  
#22661-1 \$9.95

Sec: 25-27VDC 3.5 A  
AMPS; 5x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 11 LBS.  
#22662 \$6.95

SOLA CONSTANT VOLTAGE  
PRI: 95-130 VAC 60 Hz  
Sec: 118 VAC 120 VA  
5x7 $\frac{1}{2}$ x3, 12 lbs sh.  
#20-13-112 NEW \$27.50

PRI: 100-130 VAC 60 Hz  
Sec: 6.5 V 25 amps  
11x5 $\frac{1}{2}$ x5 $\frac{1}{2}$ , 28 lbs sh.  
American Trans. #51005  
5950-228-0821 \$45.00

COLLINS 250 watt modul-  
ation, 677-1040-00  
Pri: 12500 Sec: 5000  
Test volts 7500  
Response 400-5000

PRI: 175-255 V 47-63 Hz  
Sec: 240 VAC 4 KVA  
11x18x7 $\frac{1}{2}$ , 65 lbs sh.  
Topaz #902-15929, \$85.

PRI: 115/230 VAC 60 Hz  
Sec: 600 VCT 100 ma,  
13 V 1 amp tapped  
6 A, 5 V 2 amps  
5x5x6, 20 lbs sh.  
#T2/URM-48, \$7.95

ELECTRO-VOICE FILTER EVXEX  
is an audio frequency fil-  
ter which connects two aud-  
io amps to two speaker  
systems. Bass frequencies  
below 300 Hz are passed to  
one side of the system and  
higher frequencies are  
passed without change to  
both systems. Eliminates  
need for two full range  
systems. 5 $\frac{1}{2}$ x4 $\frac{1}{2}$ x5, 8 lbs.  
Unused, original-boxed \$4.  
W/water damaged case \$2.50

PRI: 120 V 60 Hz  
Sec: 2.5 V 10 A.  
NO C.T. INS. 10M.  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2; 8 LBS.  
#229611.144  
\$2.95

Pri: 115 V 60 Hz  
Sec: 900 VCT 160  
ma; 4 $\frac{1}{2}$ x5x3 $\frac{1}{2}$ , 8  
1bs. #74618 \$7.95

Pri: 115 V 60 Hz  
Sec: 900 VCT 84  
ma; 5x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 12  
1bs. #746-7167 \$4



MAGNETIC  
AMPLIFIER  
115,000 CYC  
HEATER/D.C.  
REFERENCE/  
CONTROL.

KEARFOTT#425957-1A/SPERRY  
622033. 3x2x2; 12 LB.  
5950-712-3882 \$3.95

PRI: 2/115 VAC 50-60 Hz.  
SEC: 5 VCT 2 A; 5 VCT 4 A;  
6 VCT 3.5 A;  
115 V RMS 600 MA.

SIZE: 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; WT:  
15 LBS.  
#89-G-2730, USED, \$4.95

**MODULATION**

MODULATION TRANSFORMER

Pri: 3000-3000

Sec: 4250 7.5 KV  
Max. DC oper. 15 KV  
13x10x10; 90 lbs.  
American Trans. #51005  
5950-228-0821 \$45.00

Collins 250 watt modul-  
ation, 677-1040-00  
Pri: 12500 Sec: 5000  
Test volts 7500  
Response 400-5000

PRI: 175-255 V 47-63 Hz  
Sec: 240 VAC 4 KVA  
11x18x7 $\frac{1}{2}$ , 65 lbs sh.  
Topaz #902-15929, \$85.

Audio Development #6977  
Modulation, plate to  
plate 15,800 ohms.  
4500 .900a DC, 7500  
.535ADC, DB 400-3000 CPS  
11x8 $\frac{1}{2}$ x10 $\frac{1}{2}$ ; 110 lbs.  
5950-568-4831 \$50

PRI: 120 V 60 Hz  
Sec: 2.5 V 10 A.  
NO C.T. INS. 10M.  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2; 8 LBS.  
#229611.144  
\$2.95

Pri: 115 V 60 Hz  
Sec: 12.6vct 2 amp  
1500 v. test, 2 $\frac{1}{2}$ x2x2  
used #P-8130 \$1.95

Pri: 115 V 60 Hz  
Sec: 12.6vct 2 amp  
1500 v. test,

## CHOKES

12 HY @ 500 ma 77 ohm  
5x5x $\frac{1}{2}$ ; 22 lbs. #9230 \$10  
10 HY . 225 ma 78 ohm 300V  
4 $\frac{1}{2}$ x3x5; 12 lbs. #SC26009 \$6

20 HY 100 MA, 3 $\frac{1}{2}$ x5x $\frac{1}{2}$ , 8  
lbs. #EP-8583, used, \$5.00

4 HY 650 ma 25 ohm 1.07 kv  
6 $\frac{1}{2}$ x5x $\frac{1}{2}$  20 lb. GE7485547 \$9

10 HY 150 ma 130 ohm 1680w  
2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x5; 5 lb. SMB-202915 \$4.

10 HY 400 ma 55 ohm 700 wv  
5x4 $\frac{1}{2}$ x6; 25 lbs SMB-203042 \$7

10 HY 125 ma 2 KV 500 V to  
gnd. 4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x4; 6 lb. #52-3 \$4

10 HY 225 ma 100 ohm 500 v.  
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x5; 6 lb. L386944 \$4

4 HY 550 MA 40 ohms \$4.95  
3 $\frac{1}{2}$ x4x2 $\frac{1}{2}$ ; 7 lb. Paeco 911-39

4 HY 250 MA 60 ohms 3000V  
3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 7 lb. C-1412 \$3.95

20 HY 50 MA 200 ohms 1 KV;  
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2; 3 lb. Kenyon mfg;  
#3C369-3, unused, \$3.50

10 HY 55 MA  
2 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3; 5 lb. T47110 \$1.95

50 HY 40 MA 1780 volt test  
3x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 8 lbs U-7402 \$3

10 HY. 50 MA. 100 OHMS. 3x  
2 $\frac{1}{2}$ x2; 1LB. 3C573/341 \$2.00

17 HY. 80MA. 300OHMS. 2 $\frac{1}{2}$ x  
2 $\frac{1}{2}$ x2 $\frac{1}{2}$ ; 1LB.HRO-3C326-31A\$3.

8 HY 150 MA 100 ohm \$3.95  
4x3x2 $\frac{1}{2}$ ; 10 lb. T1A04LHA

10 HY. 100MA. 263 OHM. 3 $\frac{1}{2}$ x  
3x2 $\frac{1}{2}$ ; 3LB. #228-1859 \$3.25

12 HY 80 MA 375 ohm \$1.50  
3x2x2; 2 lbs. SKIN20053

150 MA AVAILABLE VARIOUS  
HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3 $\frac{1}{2}$ x  
4 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 6 lb. L-225/PL115 \$6

6.7 Hy 215 ma 2100 V test;  
3 $\frac{1}{2}$ x6x3 $\frac{1}{2}$ , 12 lb. UK6911 \$5.

**TELE REPEAT**

4 WINDINGS 21 OHMS EACH.  
CROSS-TALK PROOF SHELL.

3C1827A 6x2 $\frac{1}{2}$ x4; 3LB. \$3.00

PRI: 60 V 60 Hz. SEC: 2130  
V 16 ma, 112 V 4 ma. 4 $\frac{1}{2}$ x6  
x $\frac{1}{2}$ , 10 lbs. #HA131P \$6.95

**10,000 VOLT**  
AMP P/N 845321-3  
PRI: 115V 60Hz.  
SEC: 10,000VAC/00MA  
5x5x4; 10lbs. \$20

**SCOPE XFORMERS**

ACE HV POWER SUPPLY as on  
page 10; 5000 VDC 50 ua  
output from 115 VAC 60 Hz  
input. Includes 2/1B3 tubes  
6x7x2, 8 lbs sh wt. Unused.  
#ACE-HV3000, \$5.95 2/\$10.

PRI: 112/117/122V. 60 Hz.  
Sec: 228V @ 15 MA.  
360V @ 125 MA. TAPPED  
7y/332/346  
6.6 v. 4.2 AMP.  
5x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 8LB. 229613-869 \$5

PRI: 115v. 50 TO 1200 Hz.  
SEC: 700VCT @ 70 MA.TAP.65  
400V @ 10 MA. 5WQ2 A.  
6.8V @ 4A. & 6.3 V @ .6A.  
5 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 10 LBS.  
CALF-301538 \$4.95

PRI: 115/230 VOLTS:  
SEC: 54.4VCT 2.5A  
37.5VCT 7.8A

6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 20 LBS.  
SCHOTT TY4-X020A  
\$12.95

PRI: 117V 50/60  
SEC: 6500VCT  
65MADC, 4350W  
5 $\frac{1}{2}$ x6 $\frac{1}{2}$ x7 $\frac{1}{2}$ ; 35LBS  
539-6504 \$25.00

HIGH CURRENT CHOKES unused.  
#622043, 1 mHY 25 amps,  
0.03 ohm DC resistance.  
Size: 3 $\frac{1}{2}$ x5x2 $\frac{1}{2}$ , 5 lbs \$6.95  
#6221186, 4 mHY 8.7 amps DC  
0.083 ohm DC resistance.  
Size: 4x2 $\frac{1}{2}$ x3 $\frac{1}{2}$ , 4 lbs \$4.95

1.5 HY 1.5 AMP  
5000 v. TEST  
8 $\frac{1}{2}$ x8 $\frac{1}{2}$ x6 $\frac{1}{2}$ ;  
SHPG. WT: 60 LB  
5950-159-6041  
\$14.95

SWINGING CHOKE  
12 hy 70 ma  
5.5 hy 900 ma  
50 ohms 115 v  
60 hz.  
5 $\frac{1}{2}$ x4x5 $\frac{1}{2}$ ; 30lb  
3340-8850 \$10

AUDIO DEVELOPMENT COMPANY  
CHOKES, all  
2 $\frac{1}{2}$ x4x2 $\frac{1}{2}$ :

#90-7B82, 80  
Hy 25 ma;  
1000 ohm, 1KV  
test. \$4.50

#90-7B81, 20  
Hy 30 ma 250  
ohm; 1500 V  
test. \$3.00

#90-7B84, 0.05  
Hy 800 ma 2  
ohms; 500 V  
test. \$5.00

1.5 MH 30 ADC  
0.035 ohm, 15  
Vrms 2400 Hz.  
3 $\frac{1}{2}$ x5x2 $\frac{1}{2}$ , 6 lb  
#924-0472 \$9.

3.5 HY 500 MA  
100 V. 60 CYC  
30 OHMS 71WV  
4 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 10 LBS  
TF1A04KA/A8649  
\$2.95

20 HY 80 MA  
320 ohms  
2 ky insula  
4x3x2x3; 7lb  
#38054 \$4

STANCOR  
CHOKES  
#C-1412,  
4 Hy 250  
ma 60 ;  
3 KV in  
sulation. 2 $\frac{1}{2}$   
3 $\frac{1}{2}$ x3 $\frac{1}{2}$ , 5 lbs.  
Used. \$4.00

#C-2326, 1 Hy  
300 ma 43 ohms  
1500 V insula  
tion. 2 $\frac{1}{2}$ x3 $\frac{1}{2}$ ,  
3 lbs. NEW \$3.

PRI: 105/115/125  
VAC 60 Hz  
Sec: 285/300/315 V  
300 ma; 285/300/  
315 V 150 ma.

2500 W; 4 $\frac{1}{2}$ x7x4,  
15 lbs. RA-342 \$0.

10 HY 225MA  
65 OHM  
3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5  
WT. 11 LBS.  
#TF1RX04YY  
\$3.95

Pri: 115 V 60 Hz  
Sec: 32 VCT 20 A  
Freed #32394  
4 $\frac{1}{2}$ x4x4 $\frac{1}{2}$ , 15 lbs  
#891-2489, \$20.95

DUAL CHOKE  
1 HY 100 MA  
200 OHMS  
4x4x3 $\frac{1}{2}$ , WT 8  
#3C557F-1  
\$1.75

3 PHASE DELTA  
60 hz 400 wv  
nominal 208 v  
3phase  
1940 wv  
1370 v rms 52  
ma rms per leg  
5x5x4 $\frac{1}{2}$ ; 18 lb  
686-6836 \$25

MULTI-VOLTAGE  
ISOLATION TRANS.  
PRI: 73/88/95/105/  
115/125/190/210/  
230/250. 50/60 CY  
SEC: 17.6/35/2189  
193/196/200/203  
@ 1.0 AMP.  
0 HYS 500 MA  
45 OHM DC RES  
500 WORK VOLTS  
5950-646-1383  
\$5.95

CHOKE; 2.5 HY  
700 MA. 16  
OHMS. SIZE:  
5x4-3/8x4 $\frac{1}{2}$   
SH WT: 17 LBS  
#147-1340,  
\$14.95

6 HY 175 MA 104 ohms, 3x3 $\frac{1}{2}$   
x2 $\frac{1}{2}$ , 5 lbs sh. #5950-241-  
2664, \$4.00

AF CHOKE 5 HY 1 Vrms 1150  
ohms; UTC #84517. 3x2 $\frac{1}{2}$  dia  
2 lbs sh. #3C328-31, \$3.00

1 hy 235 ma  
80 ohm.  
2x2x1 $\frac{1}{2}$ ; 8 oz  
#0146 \$2.00

6.3 hy 6.24a  
61 ohm  
3 $\frac{1}{2}$ x3x4 $\frac{1}{2}$ ; 51b  
814-2421 \$4.

PRI: 115/230 VAC  
Sec: 650 VCT 70  
ma. 6.3 V 3.8 A.  
3 $\frac{1}{2}$ x4x3, 7 lbs sh  
#M4626/TSL050 \$6.

PRI: 117V 50-60CYC  
SEC: 3/5V CT @ 2A  
2/5V CT @ 2A  
2/2.5V @ 10A  
7x4x3 $\frac{1}{2}$  WT. 12 LB  
GILFILLAN #54-48-1  
PRICE: \$5.95

SPEED CONTROL  
CONSISTS OF A  
TRANSFORMER  
IN BOX 115 V.  
60 HZ. WITH  
OUTPUT SELECT  
OR SWITCH  
MARKED OFF-HI-MED-LOW.  
PLACED IN SERIES WITH A.C.  
LINE & LOAD SELECTOR ALLOWS  
100%, 40% OR 20% OF INPUT TC  
LOAD. 100 WATTS. SIZE 4 1/2  
X 4 1/2 X 3; 61 LBS.  
#230428 NEW \$2.95

IGNITION TRANSFORMER  
PRI: 230v 50/60 CY  
SEC: 5000V 18 MA  
ONE END GND.  
6x4 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; 12 LBS.  
5950-959-5369 \$7.95

Pri: 105/115/125  
VAC 60 Hz  
Sec: 285/300/315 V  
300 ma; 285/300/  
315 V 150 ma.

2500 W; 4 $\frac{1}{2}$ x7x4,  
15 lbs. RA-342 \$0.

CY-2595 TRANS-  
IT FRAME for  
AT-903 antenna  
Frames can be  
stacked to  
form tower  
base; 38 $\frac{1}{2}$ "Hx  
30 $\frac{1}{2}$ "Wx30 $\frac{1}{2}$ "D,  
35 lbs. Must be shipped  
bus or truck--No UPS.  
Use1, \$14.00 each; 3/35.

PRI: 115 V 60 Hz  
Sec: 285/300/315 V  
300 ma; 285/300/  
315 V 150 ma.

2500 W; 4 $\frac{1}{2}$ x7x4,  
15 lbs. RA-342 \$0.

10 HY 225MA  
65 OHM  
3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5  
WT. 11 LBS.  
#TF1RX04YY  
\$3.95

PRI: 105/115/125  
VAC 60 Hz  
Sec: 285/300/315 V  
300 ma; 285/300/  
315 V 150 ma.

2500 W; 4 $\frac{1}{2}$ x7x4,  
15 lbs. RA-342 \$0.

10 HY 225MA  
65 OHM  
3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5  
WT. 11 LBS.  
#TF1RX04YY  
\$3.95

TRANSFORMER WITH  
METER 0-100 AC  
AMPS.

PRI: 115 VAC 60cy  
Sec: 10/14/19/24  
W/ON-OFF SW. AND  
FUSED LINE. 140 LB  
SIZE: 16x8x15 $\frac{1}{2}$   
5950-537-4950  
PRICE: \$39.50

TRIPLE  
CHOKE  
Each wind-  
ing 10 mH  
1 amp or  
5 mH 2 amp;  
1/2 ohm res, 60 wv  
to gnd. 2 $\frac{1}{2}$ x4x2 $\frac{1}{2}$   
4 lb. #3069 \$3.95

DUAL CHOKE, 0.05H  
500 ma 1.36 ohm;  
3 $\frac{1}{2}$ x4x2 $\frac{1}{2}$ ; 4 lbs sh.  
#3C575Z-5 \$3.00

SWINGING CHOKE, 3.8/3.6 Hy  
100/150 ma; 3 KV test. 4 $\frac{1}{2}$   
3x2 $\frac{1}{2}$ , 4 lb. 3C323-6Z21 \$5.

PRI: 115 V 60 Hz  
Sec: 500 VCT 100  
ma, 600 VCT 150  
ma, 6.3 VCT 3 A  
Size: 5x4 $\frac{1}{2}$ x3 $\frac{1}{2}$ ,  
10 lbs sh.  
#MB-1281, \$5.95

PRI: 120 V  
60 CYCLE  
SEC: 5.4V/2.7V  
G15A  
5VCT  
G15A  
WITH  
INSU  
LATOR  
& TUBE SOCKET CE  
5x5x7 $\frac{1}{2}$ ; 15 LBS  
5950-533-5572  
\$14.95

PRIMARIES 0-120, 130, 140 60  
CYCLES. VARIOUS MANUFACTURE  
USED, CHECKED, GUARANTEED.

1 AMP \$4.95 6 AMP \$24.  
1-1/4 5.95 7.5 27  
1-3/4 6.95 15 37  
2-1/2 8.95 20 45  
3 12.95 50 95

KNOBS & DIAL PLATES INCLD.

POWERSTAT TYPE 21, 0-130 V  
4.5 amps; 7 lbs. Used \$21.

VARIAC V20 or W20, 0-135 V  
20 amps; 30 lbs. Used \$45.

12 VOLT 60 HZ INPUT, 0-3.5  
V 2 AMPS OUT. #5-1066, \$3.

VARIAC M-5/RMS11-2, 0-135V  
5 AMPS FROM 114 VAC 400  
HZ INPUT, #7486, \$12.95

VARIAC M20BB 120 VOLT 350  
20 AMP. MOTORIZED 115V400  
#5950-089-7734 NEW \$65.00

115VAC 60HZ 9AMP GANGED  
FOR TWO PHASE MOTORIZED  
115VAC 60HZ CN-54/FST-1  
USED, \$50. LESS MOTOR \$45.

POWERSTAT, 115V. 400/800HZ  
OUTPUT: 0-130v  
7.5 AMPS,  
0.975 KVA.  
#5950-518-  
2508, NEW  
\$13.95

OTHER VARIABLE TRANSFORMERS  
AVAILABLE. WRITE YOUR NEEDS

AS-52/TRC-8 90° CORNER REFLECTOR, two 36 $\times$   
30" planes at right angles collapse and  
fold into 30x23x8 package. Mounts on 2"  
dia mast; 18 lbs sh. Unused, \$14.95

HALF-WAVE DIPOLE FOR AS-52; 230-250 Mhz.  
50 ohm feed; N connection, 4 lbs sh wt.  
#2A288A-35, used, \$6.95

AS-756/TRC TWO 3-ELEMENT  
YAGI ARRAY for 40-100  
Mhz, 5 db gain; vertical  
or horizontal polarization.

tion. Consists of array spacer bar,  
two antenna booms, and 12 each long,  
short, and subassembly antenna elements.

Component lengths adjustable according to frequency:  
spacer 58"-112", booms 72", and elements 40"-58".  
Matching transformers are built-in into each boom. Also  
includes 10x77 $\frac{1}{2}$ x20 transit case and enough spare com-  
ponents for third yagi. 185 lbs sh wt. Unused, \$125.00

# ANTENNAS

MP-22 MAST SECTION MOUNTING BASE WITH SWIVEL THAT WILL TIP TO 90 DEGREES, RIGHT OR LEFT AND WILL LOCK IN THE VERTICLE POSITION. WILL TAKE MS-53 OR MS-54 MASTS AS THE STARTING SECTION.

MOUNTING PLATE SIZE: 5X6 HIEGHT OF BASE 10". WT: 10LBS. \$4.95

MP-22A SAME AS ABOVE EXCEPT THE STARTING SECTION IS MS-51 AND YOU CAN ADD MS-50 & MS-49. \$4.75

MAST SECTIONS (shown to left) 3 ft. painted, copper-coated tubular steel. Sections screw together to make desired length with MS-49 as top--then MS-50, -51, -52, and -53. MS-53 can be screwed into another MS-53 for added length. (MS-53 also screws into MS-54, -55, & -56, none of which are available.) Sections self-supporting to 15 feet. Taper 5/8" to 3/16"; 1 lb sh wt per section. May need paint but useable. MS-49-50-51-52, used 75¢ ea. Unused \$1.25 MS-53 section, used \$1 each. Unused \$1.50

CW-206 ROLL BAG for MS-116-117-118 mast sections; 40" Lx3" Hx5" W, used, \$5.00

ADAPTER BASE WITH INSULATOR, MAST SECTIONS MS-52 OR MS-53 WILL SCREW INTO THE TOP, AND ADAPTER BOTTOM WILL SCREW INTO MS-52 OR MS-53. CAN BE USED TO ISOLATE SECTIONS OF WHIP OR DIPOLE. SIZE: 1 1/2" x 8", 1 1/2 LB. NT-66023 \$1.95

FT-250 MOUNTING BASE FOR BC-620 & -659 transceivers; 18 lbs sh wt. \$20.

CO-278 CORD 8' unused \$4

MP-41 MAST BASE bracket for all mast bases which need 2" hole mounting. 3x14x10, 7 lbs. \$5.00

AB-15 BASE FOR WHIP ANTENNA SECTIONS MS-116-117-118 ALSO AB-21-22-23-24. SPRING ACTION WITH INSULATOR 3 1/2" X 3" AND COAXIAL CONNECTOR FOR USE WITH AB-259, REQUIRES 2" HOLE FOR MOUNTING. SIZE 15 X 3 WT: 2 LBS. \$4.95

WHIP ANTENNA MAST SECTIONS FOR USE WITH AB-15. MS-116 IS LARGEST, 3 1/2" X .393". MS-117 & 118 TAPER 3 1/2" L. MS-116 OR 117, \$2.50/SEC. MS-118 \$2.50

CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 KHz-4 Mhz, \$3.95

A-62 Dummy Load for SCR-508-528-BC-604 \$5

A-83 " " " " 608-628- " 683 \$4

AS-27A/ARN-5 Horizontal folded dipole used on BC-733, ARN-5 Receivers 108-110 mhz etc. \$10

AT-2/APN-2 DIPOLE ANTENNA, 150-180 MHZ \$5.00

AT-438/GR DIPOLE ANTENNA 15" folded, takes PL-259 coax. conn. on insulated bracket. \$15

ANTENNA WIRE SOLID COPPER #10 VINYL COVERED, 250FT #4884C \$25

AS-27A

ANTENNA WIRE SOLID COPPER #10 VINYL COVERED, 250FT #4884C \$25

MP-54 OFF-SET BASE FOR AB-15; OFFSET 7" FROM BASE CONNECTOR. CTR. 1 1/2" H. #2A288A-35 \$7.95 \$6.95

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, \$1.00 EA.

ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air gap variable capacitors. Each rotates 180° in 10 sec using 24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to different use. 360° rotation actuates fixed capacitance in parallel over next 270° in 13 steps. 400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to engage fixed capacitance steps. W/schematic; 4 1/2" x 6 1/2", 5 lbs sh. #2-C1003/T-195, used, \$6.95

THY GROUND PLANE ANTENNA designed for 72.5 MC. use but can be used on other frequencies. Radiator 39", radials 40". Brass & coated steel construction with SO-239 coaxial connector. Has universal wall mounting bracket that can also mount on pipe using "U" bolts. Shpg. wt: 15 lbs. COA-66089 \$10.00

AT-339/PRC-6 HOMING ANTENNA for use in the 38-55.4 MC range continuously tunable. Handheld unit has folding loop, 5-step output attenuator, 4' cable w/BNC conn. Loop is 24" high, collapsed 12 1/2" x 5 x 2 1/2" and comes in bag. wt: 6 lbs. \$10.00

**ANTENNA HORN**  
AT-903/G ANTENNA FEED HORN f/ 600-1850 Mhz range. 50 ohms impedance; type C connection. Has locking 11-position elevation adjust. Fits 2 1/2" dia. mast. Aluminum. 35" Lx26" Hx21" 40 lbs. Shipped via truck only. Used, \$35.00

AT-271/PRC Whip antenna, throw-out type 8 1/2 sections with spring loaded retaining cable to keep sections together in contact, folds up when not in use. \$5

AT-272 Goose neck flexible base 8" used with flat antenna on PRC sets. \$2.

MT-652/GR ANTENNA BASE f/MS-116-117-118; fits RT-66-67-68-70, R-108-109-110. Used \$5.

CCL-51048 WHIP ANTENNA Telescoping; 7 ft. extended, 15" collapsed. \$2.50

AN-109 WHIP ANTENNA 5 FT. tapered \$1.50

AN-119 " " " " 6 FT. " \$1.50

MP-74 GOOSENECK BASE for MS-118/AB-23 Mast Sections, 7 1/2" lg. w/spade type bracket for side mounting. \$2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. \$2.00

AN-190 HANDHELD LOOP ANTENNA for SCR-536/BC-611 Radio Set. Similar to AT-339. \$12

## 210 TO 620 MHZ DIPOLE

AT-880 DIPOLE ANTENNA WITH CORNER REFLECTORS AND TWO FREQUENCY BANDS: 210-420 MHZ (LO) AND 390-620 MHZ (HI). 300 WATTS POWER RATING; LESS THAN 2/1 SWR OVER RANGE. INPUT IMPED: 50 OHMS. ADJUSTABLE ELEMENTS SPREAD FROM 12" L x 7" W TO 21" L x 15" W.

DIPOLE STANDS 14" OF MOUNTING BASE. TWO REFLECTORS ARE AT 45° ANGLE TO DIPOLE, 32" HIGH AND 40" ACROSS. FOLDS TO 32x7x30. MOUNTS ONTO 2" DIA. MAST; 35 LBS. SHIPPABLE VIA BUS OR TRUCK ONLY. USED, \$24.95;

AB-101 MAST SECTIONS FOR ANTENNA SUPPORT. STEEL MAST 2" od. 5 1/8" lg. SWAGED END AND LOOKING DEVICE. SOLD ONLY IN SET OF SEVEN WITH CARRY. WEIGHT 100 LBS. PRICE USED \$50.00

MX-364 INSULATOR, FITS OVER 1-3/8" DIA. MAST OTHER END 1-3/8" OUTER DIA. \$1.95

AB-154 BASE WITH SWIVEL STAKE, 1-3/8" DIA. SLIPS INTO MAST SECTION. \$1.95

MX-857 ADAPTER, FITS OVER 1-3/8" DIA. MAST F/USE OF MS-116-117-118 WHIPS. \$1.95

MX-GUY ROPES ARE 3/16" NYLON, 800 LB. TEST, W/ADJUSTMENT HARD. INSULATOR & HOOK. MX-381 GUY 40 ft. with attachments \$2.00

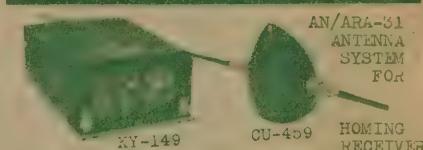
MX-382 GUY 31 ft. " " \$2.00

MX-1469 " 44 ft. " " UNUSUAL 5.00

MX-378 GUY RING FOR FASTENING GUYS AND IS USED BETWEEN THE MAST SECTIONS 0.50

GP-2 STEEL GUY STAKE, 16 1/2" Lx4" DIA. 1-1/8" HEAD, 1-3/8" POINT. 2 LBS. 85¢ EA. 4 FOR \$3.

## ARA-31 HOMING SYSTEM



AN/ARA-31  
ANTENNA  
SYSTEM  
FOR

KY-149

CU-459

HOMING  
RECEIVER

For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, \$50. AT-624 antenna element, \$8.00 each. CU-459 antenna connector, \$5.00 each. SA-474 switching box, \$6.00 each. KY-149 keying unit, \$25.00 each.

IP-21 LOOP ANTENNA, used with 200-1500 KHz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autodyn to transmit to I-82 or similar indicator Teardrop shape for aircraft; 30 lbs. \$25.

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, \$25.

AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, \$15.

SPDT ANTENNA CHANGEOVER RELAY silvered contacts look good for 400 watts. 48 VDC coil has auxiliary SPDT contacts. Requires 3 - "N" connectors. 3x3x1, 2 lbs sh. Collins #123-0100-507, used, \$12.95 each

SPDT COAXIAL SWITCH rated DC to 5 Ghz, approx 1 Kw. 28 VDC motor drives contact bar. Requires 3 - "L" connectors (as used on RG-17 coax) and one 7-pin control connector. 6x8x9, 8 lbs; Thompson-Ramo #C14K2CA, unused, \$27.95

ANTENNA relay; part of 30W 2 meter trans. SPDT with unused contact grounded, 60 vdc 15 ma. 4000 ohm coil. Three BNC connectors chassis, 2x1x2. unused #259-5165 \$7.95 2/\$15.00

WESTERN MICROWAVE ICL35A FERRITE ISOLATOR, 1.7 to 1.8 Ghz; 17 db isolation loss, 0.7 db insertion loss. 2 watts ave. Has male and female type N conn. 2x3-3x1x1. \$15.

AUTOMATE COAXIAL SWITCH, MODEL 94CSA, used with above isolator. Two separate 28 vdc spdt coils, ea. one side norm. gnd. Two female TNC & one type N conn. Size 3x1x2x3 used \$12.95 w/isolator \$25

**CHOPPER** RF CHOPPER USED IN AUTOMATIC DIRECTION FINDING ANTENNAS TO SAMPLE BETWEEN SENSE AND REFERENCE ANTENNA. USES TWO 100 Hz -5% COILS; CAN BE ACTUATED MANUALLY WITH DC VOLTAGES. HAS TWO UG-88 CONNECTORS ON 15" CABLES AND UG-290 BNC OUTPUT CONN. 4-3/8x3x1/2; SH WT: 3 LBS. REMOVED FROM EQUIP. #354-1013-00, \$2.95

ANTENNA's from CANADA: UHF-type for 243 Mhz approx. 23" lg; screws into hard rubber base that mounts onto a mounting base. Rubber base has provision for Canadian coax fitting. Aerial #9 w/24" base, \$35. ZA-3143 COAX, 5" w/connectors \$1.

Cone-shaped aerial base #8, hard rubber, 5" dia. X 4" h. With 96" whip antenna. #PC-8-96, \$38.50

# CABLES

## NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE.  
LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX	100	500	1000	5000
RG-#	Ohms	feet	feet	feet
RG-3/U	52	.22	.21	.20
RG-11/U	75	.20	.19	.18
RG-58/U	55.5	.11	.10	.09
RG-59/U	73	.12	.11	.10

Prices subject to change without notice.

## NEW COAXIAL CONNECTORS

SO-239 59¢ ea.	PL-259 69¢	CH-259 75¢ ea.	JUNCTION \$1.25 ea.
10 or more 10 or more 10 or more 10 or more	10 or more 10 or more 10 or more 10 or more	10 or more 10 or more 10 or more 10 or more	10 or more 10 or more 10 or more 10 or more
55¢ ea.	65¢ ea.	70¢ ea.	\$1.10 ea.
#83-876, two #83-58FCP, short screw mount barrel PL-259 SO-239, 50¢ for RG-58, 50¢	UG-536 "N" conn. for RG-58, \$1.		

## COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U-45¢ ea., 10/44. UG-89 f (RG-58) U-75¢ UG-909 bulk - U-\$1 -306 90 m-f Un \$2. -911 bulk Un-\$2 -260 m (RG-59) U-65¢ -913 m r/a Un-\$2 -273 to UHF Un-\$2. -1090 to post U-32 -282 to post \$1.50. -912 bulk Un-\$2 -290 f rec U-65¢ -1441 to two banana jacks U-\$3. -291 f panel U-\$1. na jacks U-\$3.

TYPE C: UG-573 m (RG-8) U- \$1.50 each. UG-710. m r/a Un-\$3 -643 f-f U-\$1.50 -943 (RG-12) U-\$3

TYPE N:  
UG-18 (RG-21) Un-\$2. UG-201 to BNC Un-\$2 -27 m-f r/a Un-\$2. -536 (RG-58) Un-\$1 -29 f-f Un-\$1.50 -58 f chas U-\$1.50 -30 f-f bulk Un-\$2. -997 r/a rec Un-\$4 -21 m (RG-8) U-\$1.75

OTHERS:  
UG-100 m U-\$1.50 DA-113 dummy U-\$5 -100 panel U-\$1.50 UG-160 pulse f U-\$2 -109 f/UG-100 \$1.50 -212 HN r/a Un-\$3 M-359 elbow: PL-259 to SO-239, U-40¢ Un-75¢ UG-175: reduces PL-259 for RG-58, NEW 35¢ -176: " " RG-59, NEW 35¢

100' RG-8/U COAX w/two PL-259's not wired; 13 lbs. #CB-RG8 NEW \$19.95

COAX with connectors from test sets; used-guaranteed usable:  
RG-9 w/two UG-573 "C" conn., 13", \$2.50  
RG-14 51 ohms w/UG-100 & UG-707; 10", \$8.00  
RG-21 w/ UG-626 & UG-630 "C" conn.; 37", \$3.  
RG-58 w/two UG-88 BNC conn., 4' min., \$2.25  
RG-59 w/male & female "N", 50', #CG-357, \$3.

## WIRE SALE

Vinyl-covered HOOK-UP WIRE - many colors. NEW.  
#18 stranded, \$3/100', \$14/lk \$50/5K  
#18 solid (black), \$3/100' \$15/lk \$55/5K  
#26 solid, \$6/500', \$9/lk \$30/5K  
#22 SHIELDED, braid covered over vinyl jack-set; stranded: \$3.50/100' \$25/lk \$85/5K

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire & shield:  
#22 stranded 100 feet \$4.50; 1000 ft \$35.00

COMPUTER CONTROL CABLE, 15 stranded, tinned 24 AWG conductors; color-coded vinyl insulation. Gray jacket; not shielded.  
\$26/100' \$115/500' \$195/lk' \$800/5K'



U-226 contacts gold-plated; can be rewired for 12 AWG. U226 mates to U226. 4 lbs. \$6.95

BUNKER RANNOH AMPHENOL

# Sale!

#31-4702 70 (M) \$1.25; -4703 70 (F) \$1.25

UHF-types: #82-23 (M) to (F) w/ground, \$1.50  
#83-58PA, press male to (F) adapter, \$1.25

83-58FCP, short barrel PL-259 f/RG-58, \$50  
83-876, two hole flange mount SO-239, \$50

83-877, adapter with PL-259 each end, \$1.25  
83-878, single hole mount SO-239, \$50

M-358, adapter "T" 2-(F) to (M), \$1.75  
#81-103 mini plug or #81-104 mini jack, \$50

MICROPHONE CONNECTORS, all males  $\frac{1}{4}$ " diameter

#80-23 80-872 80-876 80-878 80-886  
press lock extended lock threaded  
fit 60¢ ring \$1 pins 60¢ ring \$1 barrel \$1

PRC-77 MODULES

p/o 30-75.95 MHz FM backpack transceiver. Sold "unused-as-is" with schematic but less covers:  
#A36-PRC77 transmitter P-A, \$10. A36  
#A38-PRC77 transmitter VFO, \$9. 2x1x1-8x2x2

## RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Consists of two 5.4" L x 3.375" dia coils with 288' of drawn silver ribbon (.125" w x 0.01" th) wound between; approx 28 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. 0/a  $\frac{9}{16}$ x5 $\frac{1}{2}$ , 10 lbs sh wt. #I401/CU-991, removed from equipment, \$29.95

ROTARY INDUCTOR, 103 uHy; 61 turns #10 tinned-copper wire form  $\frac{5}{8}$ " L x 3-3/8" dia. coil. Sliding contactor type; with coupler for  $\frac{1}{4}$ " dia. shaft. Overall size: 8x8x14, 23 lbs sh wt. #939-L6-LG, removed, \$25.00

ROLLER INDUCTOR, 5.5 uHy; 11½ turns #12 T-C wire in  $\frac{1}{2}$ " L x 2" dia. coil. Roller contacts; less coupler. Shaft 3/8" L x  $\frac{1}{4}$ " dia. Overall: 3x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 8 lbs sh. #939-11.5-S, \$10.95

ROLLER INDUCTOR, 1.3 uHy; similar to above, but 5½ turns #12 wire. #939-15-SM, \$6.95

ROTARY INDUCTANCE TUNER COIL THIRTY TURNS OF TINNED COPPER WIRE AROUND A 2" DIA. X 3" DIA. ISOLANTITE FORM; 23 U-HY 100 WATTS APPROX.  $\frac{1}{4}$ " DIA. SHAFT FOR COUPLING. SIZE: 5x3x3 $\frac{1}{2}$ ; SHPG. WT: 3 LBS. #AC55471, \$10.

CERAMIC FLEXIBLE COUPLINGS, see page 29

100-TURN COUNTER WITH SPIN KNOB. THREE DIGITS: 000 to 999. HAS COUPLER FOR  $\frac{1}{4}$ " DIA. SHAFT; NO FRONT MOUNTING PLATE. OVERALL LENGTH: 6 $\frac{1}{2}$ ". DEPTH REQUIRED BEHIND YOUR PANEL: 4 $\frac{1}{2}$ ". 2 LBS. SH. #1323-COUN, \$5.95

618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3 $\frac{1}{2}$ x1 $\frac{1}{2}$ " dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 350 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, \$22. With tubes \$30 MATING CONNECTORS, 2 required, \$2.50 each. SCHEMATIC for 618S-1 power amp, \$1.50

## TRANSMITTING CAPACITORS

MICA TRANSMITTING CAPACITORS, G-SERIES TYPE IN USED OR UNUSED CONDITION DEPENDING UPON A VALUE'S AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK. WRITE.

TYPE	KV	MFD	KV	MFD
G1, 2 $\frac{1}{2}$ " h x 2 $\frac{1}{2}$ " dia.,	wt: 3 lbs.	\$12.50 ea.		
1.0	0.04	6.0	0.0001	
1.5	0.08	6.0	0.00024	
3.0	0.02	6.0	0.0006	
4.0	0.0062	10.0	0.00015	
5.0	0.00015	5.0	0.008	

TYPE	KV	MFD	KV	MFD
G2, 3 $\frac{1}{2}$ " h x 3" dia.,	wt: 5 lbs.	\$18.50 ea.		
2.0	0.03	10.0	0.0002	
2.0	0.045	10.0	0.00057	
10.0	0.00015	15.0	0.0002	

TYPE	KV	MFD	KV	MFD
G3, 5" h x 4" dia.,	wt: 8 lbs.	\$27.50 ea.		
2.5	0.15			
5.0	0.02	20.0	0.000051	
6.0	0.008	20.0	0.00015	

TYPE	KV	MFD	KV	MFD
G4, 5" h x 5 $\frac{1}{2}$ " dia.,	wt: 12 lbs.	\$39.50 ea.		
4.0	0.084	8.0	0.012	
4.0	0.1	10.0	0.02	
6.0	0.024			
6.0	0.0373			

TYPE	KV	MFD	KV	MFD
GE, 10" h x 6 $\frac{1}{2}$ " dia. wt: 22 lbs.	\$59.50 ea.			
10.0	0.02	35.0	0.0005	
15.0	0.0068	35.0	0.0004	
15.0	0.0082	35.0	0.001	
		35.0	0.0017	

MOTORS	115 VOLT AC-DC MOTOR, starts at 15 VDC, runs counter-clockwise. 3" dia X 5 $\frac{1}{2}$ " lg plus 5/16" dia X 1-1/8" lg threaded shaft, 5 lbs sh. #AC-DC-R102, unused, \$4.95
	115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2 $\frac{1}{2}$ x3 $\frac{1}{2}$ plus 5/16" dia X 1 $\frac{1}{2}$ " long machined spiral shft. 3 lbs. #AC-DC-H102, \$3.00
	27 VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx. 5 volts. Duty cycle 30 sec on, 300 sec off. 0/A 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ plus 7/8" long X 3/8" dia. shaft. 5 lbs sh. #2321-6, \$7.95
	BODINE 1/12 HP GEARHEAD MOTOR, 115 VAC 60 Hz 2 amp motor, 1725 RPM. Gearhead: 175 RPM 1:1 ratio, 21 lbs -inch torque. Overall size: 9x 5 $\frac{1}{2}$ x5 $\frac{1}{2}$ . Gearhead shaft: 2-3/8" lg X 5/8" dia. 22 lbs. #NSL-53R \$25
	GE #5BC48AB550A $\frac{1}{4}$ HP DC SHUNT COMPOUND MOTOR, armature 115 VDC 2.1 A; field 40 VDC 1.2 amp. 1140 RPM. Double end shaft 2x5/8 and 4x5/8" dia. Casing 11 $\frac{1}{2}$ x6 $\frac{1}{2}$ dia. 60 lbs sh. Used \$35.

160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X 1 $\frac{1}{2}$ " lg shaft. 0/A 5 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 3 lbs. #160DRV/618 used, \$8.95

100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1 $\frac{1}{8}$ " bar which would mate with slot shaft (not included). Also 3400 RPM available on 5/32" dia x 1 $\frac{1}{8}$ " lg shaft. 0/A 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ , 3 lbs sh. #LEE-11132S unused, \$8.95

SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1/8x3/32" dia shaft; 0/A 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ dia, 1 lb. #R-S57141, NEW \$2.; w/pulley \$2.25

DUAL SPEED OPEN FRAME MOTOR, USED WITH RECORDING UNITS. 115 VAC 60 Hz; 2000 AND 3000 RPM. 3 $\frac{1}{2}$ " DIA. SHAFT EXTENDS BOTH SIDES WITH PULLEYS FOR BELTS ONE SIDE. MOTOR SIZE (LESS SHAFT): 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{1}{2}$ , SHPG. WT: 4 LBS. #TM-381, UNUSED, \$3.95

HEAVY DUTY TAPE RECORDER MOTOR 115 VAC 60 Hz, 1500 RPM. MOTOR SIZE: 3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2 $\frac{1}{2}$ , SHAFT 1 $\frac{1}{2}$ x5/16" DIA. WT: 5 LBS. STK. #D6-20220 UNUSED, \$5.95

HAND-CRANK MAGNETO GENERATORS  
OUTPUT APPROX. 100 VOLTS DEPENDING ON SPEED OF ROTATION.  
USED TO RING BELLS IN TELEPHONE LINES. CAN BE USED FOR  
WORM SHOCKER AND OTHER EXPERIMENT. SIZE 4x2 $\frac{1}{2}$   
WT: 1 LB. COND. USED G-25 \$7.95; G-42 \$10.00

DC AIRCRAFT MOTOR; GE#5BA-  
50LJ29, 0.4 HP, 3000 RPM.  
ARMATURE: 60V. @ 2.3 AMPS  
FIELD: 27 VOLTS @ 6.5 AMPS  
DUTY: 10 MIN. @ FULL RA-  
TING. SHAFT IS CORKSCREW-  
TYPE 5/8 INCH DIA. FLANGE MTG. 3 $\frac{1}{2}$  CNTS.  
BODY SIZE: 6 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$  WT: 11 LBS. \$4.95

VARIABLE SPEED DRIVE CONTROL  
USED WITH MOTOR AM No. E-85-  
132. GE#35750RJ750A1, FIELD  
100 VDC ARM., 140 VDC., 2.6 A.  
INPUT 230 V. 50/60 Hz, 5 LBS.  
Unused w/schematic \$15.00

JOHN OSTER TYPE C-24A-1B KS-5829  
SERIES MOTOR; 27 VDC, 0.01 HP,  
7000 RPM. SIZE: 3x2 DIA.; SHAFT:  
1 $\frac{1}{2}$  DIA. WT: 1 LB. Unused, \$2.95

GE#5PR56HCM 110 V. 2.3 A. 8000  
RPM. INT. 1/10 H.P. 50/60 CYC.  
REV. SIZE 3 $\frac{1}{2}$ x5, SHAFT 3/16x1  
STK. #3H300QB2 5 LBS. N. \$12.95

DICTAPHONE #70B-2P; 115 V. 60 c  
1/60 HP. 1740 RPM. SIZE 3x3,  
SHAFT EA. END 1 $\frac{1}{2}$ x $\frac{1}{2}$ , 2LB.N \$9.95

GENERAL ELECTRIC GEAR MOTOR  
150 RPM 115 V 60 Hz 3 amps,  
reversible; torque 50 in-lb  
Gear ratio 10.67 55 C inter-  
mittent duty. Requires 4 mf 330 VAC  
capacitor (not included). 0/a 10x  
4 $\frac{1}{2}$ x6, 15 lbs sh. #5KCP19C54T, used, \$12.95  
4 mf 330 VAC capacitor f/above & others, \$1.

MD-34/ARA-8 MODULATOR-  
KEYER, p/o automatic  
homing keying assembly;  
contains Oster BT-2-15

28 VDC shunt motor, 12000  
RPM 1.1 amps connected to double worm reduction  
with output of 32 to 50 RPM over 10-26  
VDC. Also has phase shift capacitor and RF  
UHF connectors. 3 $\frac{1}{2}$ x10x4 $\frac{1}{2}$ , 5 lbs. Used, \$3.95

28 VDC 12000 RPM MOTOR f/ARC-3  
set. Removable worm gear;  
shaft 1 $\frac{1}{2}$ x3/16" dia. 0/A 3"  
x 1 $\frac{1}{2}$ " dia. #697-2644, \$5.95

HAND CRANK GENERATOR AS USED IN  
GIESON GIRL RESCUE TRANSMITTERS  
OUTPUT 28 VDC @ 175 MA & 300 VD  
@ 30 MA. WHEN CRANKEED AT 60 RPM  
GEAR RATIO APPRX. 72 TO 1.  
NO LEGS SEAT OR MOUNTING.  
#GEN/CRT-3 RE-MOVED \$10.00

HYSTERESIS SYNCHRONOUS MOTOR  
115V 60HZ 1800RPM, CONT. 1/8HP  
FL. MTG. 7", SHAFT 2 $\frac{1}{2}$ /1 $\frac{1}{2}$  DIA.  
SIZE 6x5, CAP. ST. USED 25LE.  
BODINE#ANCH-54 OR EQUAL \$25.00

RECODER MOTOR, 1500 RPM; 115 VAC  
60 Hz DOUBLE END SHAFT, 4 $\frac{1}{2}$ x3/16"  
DIA. & 1 $\frac{1}{2}$ x3/16" W/PULLEY. MOTOR  
SIZE: 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 WT: 2 LBS.  
STK. #G140700 UNUSED, \$4.95

RECODER MOTOR, 1500 RPM; 2" SHAFT  
IS 3/16" DIA. FOR 1 $\frac{1}{2}$ "; 3/64" DIA.  
LAST 1". 3 $\frac{1}{2}$ x3/16" DIA. SHAFT ON  
OTHER SIDE. MOTOR SIZE: 2 $\frac{1}{2}$ x2 $\frac{1}{2}$   
WT: 2 LBS. #602-1 UNUSED, \$4.75

EAD/WE KS-5718; 115 V. .27 A. 50/60 CYC. CAP.  
REQ. 4 MFD. DUAL SPEED 2750/3300 RPM. NO SIZE  
3x3, 4 LBS. SHAFT 5/16x1, 1/50 HP. N. \$14.95

WE KS-5871-LO1 MOTOR, 28.8  
VDC @ 3.3 A. 5600 RPM.  
0.04 HP SERIES WOUND. CON-  
INUOUS DUTY; REVERSIBLE  
WITH SPEED GOVERNOR. (MAY  
ALSO OPERATE AT 12 VDC AT  
REDUCED SPEED. SHAFT 1 $\frac{1}{2}$ , OVERALL SIZE:  
6 $\frac{1}{2}$ x3 DIA. SHPG. WT: 7 LBS. USED \$7.95

MOTOR DRIVE ASSEMBLY f/vacuum  
variable capacitor. Uses  
1/100 HP 15000 RPM 28 VDC  
motor (2" x 1 $\frac{1}{2}$ " dia.) Has worm  
drive from motor to a series  
of gears geared to a 2" lever arm with  $\frac{1}{2}$ "  
vertical motion. Also has limit switches and  
Cinch DA-15 15-pin connector. O/A size: 8x  
3 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 3 lbs sh. #DRV501/CU991, used, \$7.95

PD-5/ARA-19 TUNING DRIVE, P/O  
ARN-6 remote tuning system.  
Uses 27 VDC 250 RPM Delco PM  
motor. Also 10-turn 1000 ohm  
linear pot driven by gear from  
the motor. Output with female  
MC-124 spline shaft. Motor shaft 5/8" long X  
1/8" dia. O/A 5 $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 4 lbs sh. Used, \$9.95  
Mating conn. \$2.50; MC-124 spline, 20", \$1.50

28 VOLT MOTOR; 135 RPM;  
HP: 1 oz/in. with 5/16x $\frac{1}{2}$ "  
DIA. GEARED SHAFT; HAS 4  
SOLDER TERMINALS ON 1 $\frac{1}{2}$ "  
BLOCK. MOTOR SIZE: 5x1 $\frac{1}{2}$  DIA. WT: 1 LB.  
GE#5BA10FJ444 USED, \$7.95

GLOBE 24 VDC GEAR CASE PM  
MOTOR, 80 RPM @ 12 VDC/180  
RPM @ 24 VDC;  $\frac{1}{2}$ "  
dia shaft with gears. O/A 5 $\frac{1}{2}$ x1 $\frac{1}{2}$   
dia; 2 lbs. #102A390, \$10.95

B-701/R-107 MOTOR FROM AS-313/ARN-6  
LOOP ANTENNA. OPERATES FROM 26 VOLT  
400 Hz @ 2750 RPM. WILL OPERATE FROM 12  
60 Hz. SIZE: 3x2 $\frac{1}{2}$ X3 WITH 3/8" GEAR. WT: 2 LB.  
Price: Used, \$1.95

HOLTZER-CABOT #1981-HC 120 VAC  
400 Hz GEAR MOTOR, 6 RPM WITH  
40 oz.-in. torque. Shaft  $\frac{1}{2}$ " long  
x 0.2" dia. Overall size: 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3,  
3 lbs sh. #1981-HC, unused \$14.95

DELCO PM MOTOR 5067125, 27.5 VDC,  
10,000 RPM. TWO GOVERNORS, TA-  
PERED SHAFT 3/16x1/16" DIA. MOTOR  
SIZE: 3x1x1 WT: 5 LBS. \$3.95

MOTOR W/RIGHT ANGLE SHAFT &  
MOUNT. 1/8 HP 230 RPM.  
SHAFT SIZE: 5/16" LONG X  
3/8" DIA. CLEARANCE BETWEEN  
SHAFT AND MOUNTING ABOUT 1"  
REQUIRES 115 VAC 60 Hz @  
1.9 AMPS. SIZE: 7x3 $\frac{1}{2}$  DIA.  
WT: 15 LBS. ROBBINS & MEYERS #KL-H330, \$12.95

D.C. LINEAR ACTUATOR UNIT;  
ARM TRAVELS 2 $\frac{1}{2}$ " AT END OF TRAVEL  
ARM ROTATES, 24VDC, 1AMP MAX, WILL  
OPERATE AT LOWER VOLTAGE. SIZE 3 $\frac{1}{2}$ x7 $\frac{1}{2}$ ; 2-LBS.  
P.M. TYPE MOTOR ASSY. #554125 USED \$0.95

D.C. LINEAR ACTUATOR; 26 VDC 24. 400 RPM. 45  
OZ IN. TORQUE, APPROX. 2" ARM TRAVEL ON THREA-  
DED SHAFT, REQUIRES LIMIT SWITCHES, HAS NO  
PROVISION FOR OVER TRAVEL. HAS BRAKE FOR FAST  
STOP. SIZE-5x1 $\frac{1}{2}$  IN. GE#5BA10FJ450 USED \$8.95

JOHN OSTER 10 CFM BLOWER  
WITH MOTOR C2BP-1A.  
27.5 VDC 0.01 HP, 6000  
RPM. SIZE: 3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$   
WT: 4 LBS. USED \$3.95

28 VDC BLOWER, 6200 RPM WITH  
THE OPTION OF EITHER A SHUNT  
MOTOR TYPE OR PM MOTOR. SIZE:  
3x2 $\frac{1}{2}$ x3 SHPG. WT: 4 LBS.

BLOWER WITH PM MOTOR \$6.95

200 RPM 32 V 60 Hz GEAR MOTOR, has  
shaft 1 $\frac{1}{2}$ " dia and 3/16" dia shaft  
for fan. For intermittent use, in-  
creased voltage increases  
torque. O/A 5 $\frac{1}{2}$ x5x2 $\frac{1}{2}$ , 3 lbs.  
#AMU-2460, unused, \$3.25  
120 RPM 115 V 60 Hz GEAR  
MOTOR, 1" dia shaft w/plastic  
gear. 4x3x2 $\frac{1}{2}$ , 3 lb. #ZGM30108, \$3.50

VICKERS AR-10007G 115 VOLT 50/60 CYCLE  
SELENOID OPERATED AIR VALVE  
ONE INLET ACTUATES TUBE  
PLUNGER 1" STROKE. USED  
SIZE: 6x4 $\frac{1}{2}$ x2 $\frac{1}{2}$ ; 5 LBS. \$18.00



RAY-201 SYNCHRO CONTROL TRANSFORMER, similar  
to AY-201; rotor 26 V 1 phase, stator 11.8 V  
3 phase 400 Hz. Shaft  $\frac{1}{2}$ x1/16" dia. O/A 1 $\frac{1}{2}$ x1 $\frac{1}{2}$   
dia. Removed from equipment, \$4.00

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8  
V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS.  
SIZE: 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ . PRICE: REMOVED FROM EQUIP. \$2.95

AY-231 AND AY-232 SAME SPECS. AS ABOVE.

15CX4 TRANSMIT 115 VAC 400 Hz, used, \$4.95

15RS4L RESOLVER 26/11.8 V 400 Hz, used \$4.95

23CX4 TRANSMIT 115 VAC 40 Hz, used, \$8.95

23CX6 TRANSMIT 115/90 V 400 Hz, used, \$10.00

23CT4 CONTROL/TRANS 115 V 400 Hz, used, \$8.95

23CT6 TRANSFORMER 90/1 V per degree 60 Hz \$10

**BELSBYNS** 2J1G1 SELSYN  
CONTROL TRANS-  
FORMER, 57.5

VAC 400 Hz; usable in pairs  
for remote position indication  
and light duty turning applica-  
tions. Operable from 24 V 60 Hz with good  
resolution and torque.  $\frac{1}{2}$ " long shaft tapered  
 $\frac{1}{4}$ ", then threaded  $\frac{1}{4}$ ". O/A 4 $\frac{1}{2}$ x2 $\frac{1}{2}$  dia; 2 lbs.

#2J1G1, less connector cap \$7.50; w/cap \$9.50

MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in  
mated pairs for rotational and position-indi-  
cation uses. 7 $\frac{1}{2}$ x4 $\frac{1}{2}$  dia, 12 lbs/pair.

Used-checked, various manufacturers, \$45/pair  
SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC  
60 Hz; used to show the sum or difference of  
two angular motions. 5 $\frac{1}{2}$ x3 $\frac{1}{2}$  dia, 5 lbs. \$10.

OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.

2J1HI SELSYN DIFFERENTIAL GENERATOR

NORMALLY OPERATES FROM 57.5/57.5

VOLTS 400 CYCLE, BUT WILL OPER-  
ATE FROM 26 VOLT 60 CYCLE AS

SHOWN IN WIRING DIAGRAM ON PAGE

31. SIZE: 2 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; WT: 8oz.

PRICE WITH CONNECTOR CAPS.....\$3.95

DAYSTROM TRANSCOIL CONTROL MOTOR 115  
VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOL-  
CT. 3200 RPM. SIZE: 2 $\frac{1}{2}$ x2, SHAFT SIZE:  
1/16x $\frac{1}{2}$  WITH GEAR. REMOVED FROM NEW EQUI-  
PMENT. PRICE: \$5.00

AY-101 AUTOSYN, rotor 26 V 1 Ø, stator 11.8V  
3 Ø 400 Hz; similar to AY-201. Used, \$4.00  
AY-177-B1 DIFFERENTIAL, 11.8 V 3 Ø 400 Hz,  
3 Ø ratio 1:1; same as AY-231-232. Used \$4.

### MAGNESYN TESTER

MAGNESYN FIELD TESTER, Type B-1  
mfgd. by Aerosmith Instrument  
for 26 V. 400 Hz magnesyns.

Has calibration charts for mag-  
nesyn usages: manifold pressure,  
torque pressure transmitters,  
torque pressure, fuel, oil,  
burner or water pressure, liquid  
level, and fuel flow. 3" indica-  
tor for setting electrical zero  
(EZ) and switch. Also short cable with male

and female 4-pin connectors. Size: 6x10x $\frac{1}{2}$ ,  
8 lbs. sh. Unused, not checked, \$25.00

LINEAR ACTUATOR, STAT. 200,  
TENS. 40, COMP. 40. ARM TRAVEL  
5/16". MOTOR 115v. 400 Hz, 1600  
RPM. DUTY 1/10, 0.04 HP. TORQUE:  
6.7 IN-OZ. SIZE: 5x5x3 $\frac{1}{2}$  WT: 5 LB.  
AIRSEARCH#34930 USED \$3.95

LINEAR ACTUATOR, STAT. 200,  
TENS. 75-100, COMP. 75-100. ARM TRAVEL  
1". MOTOR 115v. 400 Hz., 0.025  
HP 6500 RPM. DUTY 1/10, TORQUE:  
3.9 IN-OZ. SIZE: 5x8 $\frac{1}{2}$ x4 $\frac{1}{2}$  WT: 5 LB.  
AIRSEARCH#3D146-120 USED \$3.95

RATCHET MOTOR, 24 VDC 60 RPM CON-  
TINUOUS. ALSO THREE POSITION  
STOP. BAND SWITCH ASSEMBLY AS.

USED IN R-5/ARN-7 COMPASS RECEI-  
VER. UNIT WILL ALSO OPERATE

FROM 18 TO 24 VDC. SIZE: 3x4x1 $\frac{1}{2}$

WT: 2 LBS. #609-ARN-7 \$1.25

DC STEPPER MOTOR, operates from  
12 V; PM armature, "Y" 4-wire  
winding. W/gears and 360° poten-  
tiometer; assy o/a 3x3x2, motor  
1 $\frac{1}{2}$ x1 $\frac{1}{2}$  dia. #11M31D3, \$3.95

## PRC-25 TRANSCOM

RT-505/PRC-25 PORTABLE TRANSCOM, 30 to 75.95 MHz FM in bands 30-52.95 Mhz (Lo) and 53-75.95 Mhz (Hi) using 920 channels with 50 KHz spacing. Transmitter output: 1.1 to 2.0 watts. Has 150 Hz squelch tone. Set is transistorized except for 2DF4 tube in power amp. Power required: 3 VDC 0.4 amp and 15 VDC 1.4 amps. Batteries not available. Size: 4x11x14; 18 lbs. sh. Used, not checked, \$125.00



AN/PRC-25 BACKPACK TRANSCOM SET consisting of RT-505, CY-2562 battery box, ST-138 backpack harness, H-189 (or H-138) handset, AT-892 ribbon antenna, AB-591 antenna base, AT-271A antenna, and CW-503 (or CW-216) accessory bag. Used, \$160. PRC-25 SCHEMATIC, \$5. BA-4386 MAGNESIUM LONG-LIFE BATTERY for PRC-25 or -77; unused, \$8.95 or 2 for \$16.00



T-195/GRC-19 TRANSMITTER, 1.5 to 20 MHz IN TEN BANDS; TRANSMITS CW, VOICE, OR FSK. MANUAL OR AUTOMATIC TUNING. POWER OUTPUT: 100 WATTS (1.5-12 MHZ), 90 WATTS (12-16 MHZ), OR 80 WATTS (16-20 MHZ). ANTENNA INPUT: 50 OHMS. AUDIO: 600 OHMS. METERS FOR PA GRID AND CATHODE CURRENTS, BATTERY VOLTAGE, AND MODULATION LEVEL WITH 22 TUBES INCLUDING TWO 4X150D'S. REQUIRES 22-30 VDC 42 AMPS (9 A STANDBY). 11x22x14; 150 LBS. SH. 122 LBS. NET. USED, REPARABLE, \$125. T-195B/GRC, P.J.R.

R-392/URR RECEIVER, COMPANION TO THE T-195, 0.5-32 MHz IN 1 KHZ STEPS ON COUNTER-DIAL. 24 VDC 3 AMPS REQUIRED. Used, checked, \$295.

MT-851 BASE FOR T-195 AND R-392, 60 LBS. \$10. T-195 BATTERY CABLE WITH PLUG, \$4.95

T-195/GRC-19 MANUAL, \$7.50

R-392/URR MANUAL, REPRODUCTION, \$10.00

AN/GRC-19 OPERATOR'S MANUAL, \$3.00

AN/GRC-19 MANUAL, \$10.00

R-805/GRC-14 RECEIVER, 2-32 MHz AM, CW, FSK in 4 bands; 115 VAC or 24 VDC 5 amps, \$250. T-631/GRC-14 XMITTER, 2-20 MHz 400 watts peak 1100 vdc, 250 vdc, 312 vdc, -105 vdc, 26 vdc 2nd 2/115 VAC 60 Hz. Used, excellent, \$175.

## AN/PRC-14 MHZ RECEIVER

R-110 RECEIVER 38 TO 54 MHZ FM CONTINUOUSLY TUNEABLE, VARIABLE SQUELCH AND AUDIO OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/1U4, 2/1L4, 1A3, 2/3A5, 1S5, 2/3C4, 2/6AK5 & 0B2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS. SIZE: 9x13x7½; WT: 32 LBS. USED \$49.50

R-108 RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED \$29.95

R-109 RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED \$39.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED \$5.95

SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SETS. ALL HAVE APPROPRIATE CABLES & CONNECTORS

THAT GO FROM THE MTG. TO THE SET & BATTERY BUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT. MT-297/U HOLDS R/T, PS, REC., RT-70, AM-65, C434. SIZE: 33½x13½x4½; WT: 75 LBS. USED \$25.00 MT-298/U HOLDS TWO (2) R/T & TWO (2) PS. SIZE: 37½x13½x4½; WT: 85 LBS. USED \$20.00 MT-299/U HOLDS ONE RT-66, 67, OR 68 & ONE PS. SIZE: 18½x13½x4; WT: 50 LBS. USED \$25.00 MT-300/U HOLDS (1) RT-70 & AM-65 (PIGGYBACK). SIZE: 8½x13x3½; WT: 25 LBS. USED \$20.00 MT-791/U NO CABLES. FOR SINGLE UNITS SUCH AS REC. MD. CV. GSA. PP. ETC. SIZE: 8½x13x3½; WT: 18 LBS. USED \$15.00

## RECEIVER-TRANSMITTER

RT-68/GRC RECEIVER-TRANSMITTER, 38 TO 54.9 MHZ RANGE CONTINUOUSLY TUNEABLE OR 100 KHZ-STEP DETENT CHANNELS OR TWO PRE-SET CHANNELS. RECEIVES AND TRANSMITS BOTH VOICE AND 1600 Hz RINGING FM SIGNALS. THE OVERALL

COMMUNICATION RANGE IS FROM 10 TO 15 MILES. THE RECEIVER CIRCUIT IS A DUAL-CONVERSION SUPERHETERODYNE TYPE WITH THE 1ST IF VARIABLE FROM 4.45 TO 5.45 MHZ AND THE 2ND IF FIXED AT 1.4 MHZ. THE RECEIVER HAS A VARIABLE SQUELCH CONTROL AND A 600 OHM OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT USES A CRYSTAL-CONTROLLED OSCILLATOR AND OSCILLATOR POWER AMP AND PUTS OUT 2 WATTS ON LOW POWER VOLTAGE OR 16 WATTS ON HIGH POWER VOLTAGES SUPPLIED FROM THE POWER SUPPLY SOLD SEPARATELY. THE RT-68 ALSO PROVIDES A METER AND TEST SWITCH TO MONITOR TRANSMITTER POWER OUTPUT FILAMENTS AND THE 90 VOLT INPUT. WITH TUBES 4/1U4, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3/3A5, 2/3B4, 3A4, 6AK5 AND 2E24. SIZE: 9x13x1½ WT: 42 LBS. USED \$75.00

RT-66/GRC RECEIVER-TRANSMITTER SAME AS RT-68 ABOVE EXCEPT 20-27.9 MHZ RANGE. USED \$39.50

RT-67/GRC REC-TRANS. SAME AS RT-68 EXCEPT 27-38.9 MHZ RANGE. REPARABLE \$49.50



PP-112/GRC 24 VDC POWER SUPPLY for RT-66-67-68 transceivers; provides required voltages for these sets from 24 VDC 6.5 amp input. 7½x9x13, 39 lbs. Used \$25

PP-109/GRC POWER SUPPLY, as above except 12 VDC 12 A input. Used, \$34.50; Gov't reconditioned, \$49.50

## PRC-10 RECEIVER-TRANSMITTER

RT-176/PRC-10 RADIO RECEIVER-TRANSMITTER; PORTABLE UNIT OPERATING FROM 38 TO 54.9 MHZ FM VOICE COMMUNICATIONS. THE RECEIVER SECTION HAS AN IF OF 4.3 MHZ AND AN AUDIO OUTPUT IMPED. OF 600 OHMS. TRANSMITTER OUTPUT IS 0.9 WATTS WITH A NORMAL RANGE OF ABOUT FIVE MILES. MICROPHONE INPUT IMPED. 150 OHMS. BOTH RECEIVER AND TRANSMITTER SECTIONS ARE CONTINUOUSLY TUNEABLE. WITH CONTROLS FOR VOLUME, TUNING, SQUELCH, POINTER ADJUST AND DIAL LOCK. CONNECTOR FOR EXTERNAL SPEAKER. WITH TUBES 9/5678, 2/5672, 3/5676, 1AD4 AND 5A6. POWER REQUIRED: 135 VDC, 67 VDC AND 1½ VDC. LESS BATTERY CASE. ACCESSORIES LISTED ELSEWHERE. SIZE: 9½x3x10½ WT: 9 LBS. RT-176/PRC-10 USED \$29.50

RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 TO 27.9 MHZ. USED-COMPLETE, NOT CHECKED, \$30.

RT-175/PRC-9, SAME AS PRC-10, EXCEPT 27.0 TO 38.9 MHZ. USED, COMPLETE, NOT CHECKED, \$35.

AM-598 AMPLIFIER-POWER SUPPLY, USED WITH PRC-8,-9,-10 WHICH PLUGS INTO TOP. FUNCTIONS AS AN AUDIO AMPLIFIER AND ALLOWS FOR 24 VDC OPERATION FOR THESE TRANSCEIVERS. WITH TUBES 2/26E6, 2/1AT7, 26Z5 AND 0C3. 11½x11½x10½; 38 LBS. SH. USED, \$24.95



## CATEGORIES

CY-744/PRC BATTERY CASE f/PRC-8-9-10, \$6.00 AT-272A gooseneck antenna base, unused, \$2. AT-271/PRC 7-section 8½' whip antenna \$4.95 AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$3. AB-591 TUBBER BASE f/AT-271 (PRC-25-77), \$4. AM-598 SHOCKMOUNT \$5. M-29 MIC w/UG-77, \$4. M-81 MIC w/UG-229 \$6. HANDSETS, H-33 w/UG-77 \$7. H-189 w/UG-229 \$12 LS-156/U LOUDSPEAKER w/UG-77....Used \$10.95 GRC/VRC CONNECTORS, specify type and with what equipment used, \$3 each w/set purchase. PLUGS, used: UG-77, metal back \$3. UG-229 \$4. CX-1211 CONN. ASSY. f/RT66-7-8 to PPL12, \$6. Connector assy. sold only with set purchase.

## PRC-6 WALKIE-TALKIE

RT-198/PRC-6 FM TRANSMITTER, single channel crystal-controlled in the 47 to 55.4 MHz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC. 15x5x4½, 6 lbs sh. Used, \$18.95; MANUAL, \$7.50 CY-853/PRC-6 CASE, space and padding for 42 crystals; 6½x6½x1, 2 lbs. Used, \$8.00

ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-198 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 1½" sq. FS=500 ua-meter and 5678 tube. Power from set under test. ID-292, unused w/manual, spare 5678, \$22.95

## GRC/PRO BATTERY TEST

AN/PSM-13 BATTERY TEST SET; DESIGNED TO CHECK GRC- AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, AND -505. METER INDICATES BAD-GOOD (FS=1 MA) WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG. WT: 7 LBS. PRICE: USED, EXCELLENT, \$24.95



ME-61/GRC FIELD STRENGTH METER 1.4 TO 24 MHZ IN THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, 1½" SQUARE METER, PHONE JACK AND ANTENNA. SIZE: 5x5x4½ WT: 5 LBS. UNUSED, \$24.95



RT-70 RECEIVER-TRANSMITTER 47 TO 58.4 MHZ FM VOICE COMMUNICATIONS. FEATURES CONTINUOUS TUNING OR TWO PRE-SET CHANNELS AND PUSH-TO-TALK TRANSMISSION. THE RECEIVER CIRCUIT IS THE DUAL CONVERSATION TYPE WITH THE 1ST IF 1.4 MHZ AND THE 2ND IF 1.4 MHZ. WITH VARIABLE SQUELCH CONTROL. 600 OHM AUDIO OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT HAS A 500 MW OUTPUT AND AN AUDIO INPUT IMPED. OF 150 OHMS. POWER REQUIRED: 90 VDC @ 80 MA, 6.3 @ 360 MA AND 6.3 @ 160 MA. WITH TUBES: 6/1U4, 3/1L4, 2/1R5, 1S5, 1AE4, 4/3Q4, 3A5, AND 3B4. RELATED ACCESSORY EQUIPMENT LISTED ELSEWHERE. SIZE: 4½x13x8 WT: 20 LBS. USED \$25.00



AM-65/GRC AUDIO FREQUENCY AMPLIFIER; THREE CHANNEL AUDI FREQ. AMPLIFIER USED FOR INTERPHONE AND MONITORING OF VARIOUS TYPE GRC REC-TRANS. POWER REQUIRED: 135 VDC @ 35 MA AND 6. 12 OR 24 VDC. SIZE: 4½x13x8 WT: 17 LBS. USED \$14.95

PP-282/GRC 24 VDC POWER SUPPLY used AM-65 and RT-70. Plugs into AM-65 and the voltages for both AM-65 and RT-70. 4½x6x3, 6 lbs. Used \$5.

PP-281/GRC VIBRATOR POWER SUPPLY, same as above but requires 12 VDC input. Used \$14.95

When the COMBINATION OFFER RT-70, AM-65 and PP-282 are purchased together. All three for \$35.00 COMBINATION OFFER with PP-281 1½ VDC supply instead of PP-282 24 VDC supply, \$45.00

TECH MANUALS WITH SCHEMATICS FOR: RT-196/PRC-6...\$7.50 PRC-9A-10A \$7.50 AM-598...\$3.00 RT-66, 67 & 68...\$5.00 PP-109 & 112...\$0.00 RT-70...\$5.00 AM-65...\$5.00 R-108, 109 & 110...\$7.50 AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66, 67, 68, R-108, 109, 110, PP-109, 112, VAR. MTG. CONTROL BOX ES. \$7.50

HIGH  
BAND

# FM — TRANSMITTER — RECEIVERS

LOW  
BAND

**R-394/U RECEIVER**, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 KHz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st RF amp, local oscillator, 1st IF amp, 2nd IF and discriminator, and audio/squelch. 455 KHz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5785, and 6AK6. 8 $\frac{1}{2}$ x2 $\frac{1}{2}$ x14 $\frac{1}{2}$ ; 22 lbs sh. Used, \$14.95; Gov't recom., \$22.50

**R-257 RECEIVER**, same as R-394 except covers 25 to 50 Mhz FM, used, \$14.95

**T-278/U TRANSMITTER F.M.** 152 to 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODULATION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES. WITH TUBES 2/3B4, 3/2E24, 4/5678, 2/5672 AND 2/1AD4.

VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMO OR ELSEWHERE ON THIS PAGE. USED \$18.95 SIZE: 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x14 $\frac{1}{2}$ ; WT: 12 LBS. UNUSED \$24.95

-278 TRANS. LESS TUBES AND CRYSTAL. OVEN \$6



**CY-938 ELECTRICAL EQUIPMENT CABINET**, used to house receivers R-394 or R-257, transmitters T-208 or T-278, and power supplies DY-93 or DY-98 or DY-100 for the transmitters. Size: 17 $\frac{1}{2}$ x11 $\frac{1}{2}$ x25, 40 lbs sh wt.

Price: Used, \$9.95

**CHASSIS CONNECTORS TO FIT R-394, R-257, T-416 T-278, T-208 & SUPPLIES**

TRANSMITTER PLUG P-401 CHASSIS CONNECTOR NO'S J-801, CANNON# DPD-A32C2-33S-2L \$2.50

RECEIVER PLUG R-252, CHASSIS CONNECTOR NO'S J-803, CANNON# DPD-A31C1-33S-2L \$2.50

POWER SUPPLY PLUG P-1203, CHASSIS CONNECTOR NO's J-802, CANNON# DPD-30-33S-22 \$2.50

UG-77 MOLDED PLUG on 4 $\frac{1}{2}$  foot cord, \$1.00

H-33/PT HANDSET on 4 $\frac{1}{2}$ ' cord w/UG-77, \$6.95

## RF MONITOR

ID-642/FSA RADIO FREQUENCY MONITOR, USES DIRECTIONAL COUPLER WITH IN-21B DIODE TO MONITOR RF

VOLTAGE LEVEL. DC VOLTAGE IS AMPLIFIED TO TRIGGER A 24 VDC RELAY (6.5 MA 4PST) OVER A POWER SCALE OF 25-200. UNIT WAS PROBABLY CALIBRATED INTO A STANDARD LOAD. REQUIRES N CONNECTORS. WITH TUBES: 2/0A2, 5751, 5670 X4, AND TJ791K01 CURRENT REGULATOR. POWER REQUIRED: 115 VAC 60 Hz. SIZE: 11x19x10 $\frac{1}{2}$ ; HPG. WT: 20 LBS. UNUSED, W/SCHEMATIC, \$7.95

BC-604 F.M. TRANSMITTER 30 W.

FREQ. RANGE 20-27.9 MBZ. 10

PRE-SET CRYSTAL CONTROL CHANNELS ARE POSSIBLE WITH THE PROPER CRYSTALS. WITH TUBES 4/1619 & 1/1624. VOLTAGE REQ. 12 OR 24 VDC & 625VDC @ 225MA. SIZE: 18 $\frac{1}{2}$ x11x10 $\frac{1}{2}$ ; 60 LBS. PRICE: Unused, \$25.00

MANUAL \$3

TELEGRAPH-TELEPHONE SIGNAL CONVERTER: CONVERTS 20 CPS RINGING SIGNALS TO 1225/1600 CPS RINGING SIGNALS AND CONERTS 1225/1600 CPS RINGING TO 20 CPS. RINGING. POWER REQ: 115V 60HZ.W/2EA.12AU7,12AX7,6AL5,6X4. SIZE: 11x7 $\frac{1}{2}$ x10 $\frac{1}{2}$ ; 18 LBS. TA-182 USED \$25.00



**R-257 OR R-394 RECEIVER CHASSIS ONLY LESS ALL PLUG-IN UNITS AND FILTERS, WITH CONNECTORS & COVER.** SHPG. WT: 10 LBS. USED \$4.95

**R-257 OR R-394 RECEIVER PLUG-IN UNITS ONLY**

**MX-1547 RECEIVER RELAY SUBASSEMBLY** \$4.95

**1ST-R.F. AMPL. W/TUBES 1/5840, 2/1AD4** \$3.95  
**LOCAL OSCILLATOR W/TUBES 2/1AD4, 1/5678** \$4.95  
**1/VR31-5783 & CRYSTAL. (NO CRYSTAL CHOICE)**

**2ND I.F. AND DISCRIMINATOR W/ TUBES 5678** \$3.95  
**1ST I.F. 7.8 MC. W/TUBES 3/5678 & CRYST** \$4.95  
**AUDIO & SQUELCH W/TUBES 3/5678, 1/5672**

**AND 1/6AK6** \$3.95  
**SELECTIVE FILTER 455 KC. (NOT SHOWN)** \$2.95

**VIBRATOR TYPE POWER SUPPLIES FOR USE WITH R-394 & R-257 RECEIVERS.** THE OUTPUT OF THE SUPPLIES ARE THE SAME AND ARE  
155 VOLTS DC @ 15 MA.  
150 " " @ 5 "  
140 " " @ 50 "  
40 " " @ .5 "  
6.3 " " @ .45 AMPS.  
6.3 " " @ 1.0 "  
1.4 " " @ 1.25 "

**PP-867/U 24 VOLTS DC @ 1.1 AMPS** USED \$4.95  
**PP-868/U 12 "** @ 2.0 " \$9.95

**PP-869/U 6 " " @ 3.7 "** WRITE AS TO  
**PP-846/U 115/230 V 60 CYC 2 AMPS AVAILABILITY.**  
**PP-804 115/230V. 60 CYCLE AC POWER SUPPLY FOR T-417, T-208 AND T-278 TRANSMITTERS.**

**WRITE AS TO AVAILABILITY AND PRICE**  
**C-844/U CONTROL UNIT FOR OPERATION OF RADIO SET FROM REMOTE POINT.** USED \$14.95

**C-847 RADIO CONTROL BOX;** USED TO CONTROL THE SYSTEM, HAS HEAVY ALNICO MAGNET 4" SPEAKER FOR MONITORING REC. CONTROLS FOR SQUELCH, VOLUME ON/OFF SW. PILOT LIGHTS AND RECEPTACLE FOR H-33 HANDSET WHICH HAS UG-77 SIZE: 9 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3 $\frac{1}{2}$ ; WT: 6 LBS. USED \$8.95  
**H-33/PT HANDSET WITH CORD & UG-77** \$6.95

**DY-93 DYNAMOTOR POWER SUPPLY**  
INPUT: 12 VDC @ 20 AMPS.  
OUTPUT: 380 VDC @ 180 MA.  
225 VDC @ 45 MA.  
-25 VDC @ 5 MA.  
USED WITH T-208 & T-278 TRANS.  
SIZE: 8 $\frac{1}{2}$ x7x14; WT: 27 LBS.  
PRICE: USED \$9.95

## TRC-77 TRANSCEIVER

**RT-654A/TRC-77 BACKPACK TRANSCEIVER** covering 3 to 8 Mhz in six preset channels. Receives AM or CW; transmits CW only. Output: 10-14 watts, 300 wpm max-keying. Transistorized except for 2E24 P-A tube. Has BFO, key jack, and connector f/UG-229. Designed for use with BB-447 nictad (not available). Requires 12 VDC 3.75 amps. 4 $\frac{1}{2}$ x10 $\frac{1}{2}$ x10, 15 lbs sh. Used, repairable, \$75.00 MANUAL, partial repro, \$10 w/set.

## PRC POWER SUPPLY

**PP-351 POWER SUPPLY,** DESIGNED TO PROVIDE REGULATED DC POWER FOR TESTING PRC-6 -8,-9,-10; SCR-510, -610; AND BC-1000

**MANPACK TRANSCEIVERS.** HAS METERING FOR EACH OF FIVE VARIABLE OUTPUTS. INPUT/OUTPUT CABLES NOT AVAILABLE. POWER REQUIRED: 115/230 VAC 50-60 Hz. 25x11x14; 150 LBS. SH. USED, \$45.00

## C-845 RADIO CONTROL

**C-845/U RADIO CONTROL**, used with R-394-257 receivers and T-208-278-417 transmitters. Contains three tube microphone amp with line level meter which allows the signal to be adjusted to modulate the transmitter.

Also has heavy duty 4" speaker for monitoring a receiver and tone generator for signaling purposes. Controls for intercom, mic level, and speaker volume and UG-77 plug. 600 ohm input impedance. Unit includes PP-846 AC power supply which mounts inside. Requires 115/230 VAC 50-60 Hz. 8 $\frac{1}{2}$ x13 $\frac{1}{2}$ x13 $\frac{1}{2}$ ; 40 lbs sh wt. Used, \$44.50; schematic, \$2.00

## PP-804 POWER SUPPLY

**PP-804 AC POWER SUPPLY**, designed to power T-208-278-417 transmitters from 115/230 VAC 50-60 Hz input. Output: 500 VDC 250 ma, 225 VDC 45 ma, 1.25 VDC 1 amp, 1.25 VDC 2 amps, -25 VDC 5 ma, 6 VDC 300 ma, 6 VAC 900 ma, and 6 VAC 2.1 amps. 8 $\frac{1}{2}$ x7x14 $\frac{1}{2}$ ; 46 lbs sh. Used, \$40.00; Manual, partial repro \$8.50 Schematic only, \$2. Mating connector, \$2.50

## PVS-3 NIGHT VISION

**AN/PVS-3 MINIATURIZED STARLIGHT SCOPE ASSEMBLY**, night vision device originally used for weapon's sighting but probably adaptable for other uses. Assemblies consist of front optics, intensifier tube housing, and weapon's mount for M-16 rifle with adapter bar. Units designed to use mil-8858 image intensifier tube (current Varo #1462-series priced over \$1800.00) which magnified existing light 40,000 times and had automatic brightness feature. Useful cathode diameter 18 mm. Required 2.65 VDC supplied from BA-1533 battery (not available). Sets are sold less intensifier tube and rear ocular sighting piece; adjustments may be required. Size: 2 $\frac{1}{2}$ " dia x 11" housing; 6" high with mount. Used, as above with case, \$165.00 Marginal light filter, for daytime low-light use, \$12.00 when purchased with assembly.

**CX-2371 CABLE ASSEMBLY** USED FOR CONNECTING R-394-257 REC. T-208-278, 416, 417 TRANS. TO THE VARIOUS CABINETS SO THE UNITS CAN BE SERVICED OUTSIDE THE CABINETS.

**CX-2341 CABLE FOR CONNECTING CONTROL BOX TO CABINET. NO PLUGS ON CABLE.** 5 FOOT LENGTH \$5. MAXIMUM LENGTH 15'

**PP-638/U POWER SUPPLY USED WITH AN-494 & AM-495 POWER AMPLIFIERS.** INPUT 115/230 VOLTS 50/60 CYCLE, OUTPUT 1100 VDC @ 320 MA, 230 VDC @ 60 MA AND 6.3 VAC @ 5.2 A. 2 $\frac{1}{2}$ " RUGGEDIZED, METERS 50 MADC 500 MADC AND 1.5 KVDC ALSO BLOWER FOR COOLING. UPPER COMPARTMENT SIZE 15WX 9 $\frac{1}{2}$  H X 6 $\frac{1}{2}$  D. SIZE: 31 $\frac{1}{2}$  x 20 $\frac{1}{2}$  x 24 $\frac{1}{2}$ . WT: 150 LBS. PRICE: RE-NEW \$100.00

## SPKERS

**LS-166/U LOUDSPEAKER**, housed in cast-aluminum case, speaker is 4" dia. with heavy-duty PM magnet, 600 ohm matching transformer with 8 ohm output and HI-LO switch, 6 foot cord with UG-77 connector. Unit is used with most GRC/VRC radio sets. 5x3x3, 5 lbs. Used, \$10.95

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**LS-454 SPEAKERS**, similar to LS-166 except with UG-229 plug for use with VRC-12 type equipment. Used, \$14.00. FT-250 MOUNT RACK for BC-620-659; 18 lbs. Unused \$20.



RECEIVER POWER SUPPLIES w/  
SPEAKER for 115 VAC 60 Hz  
operation of the following  
BC-453-454-455-946  
R-23-24-25-26-27/ARC-5  
R-10-11-15-19-22 ARC-type  
BC-348 BC-659 R-174/GRR

Include dynamic speaker housed in metal cabinet with connecting cable, phone jack, volume control, BFO switch (if applicable). Output: 200/250 VDC 90/60 ma and 24 VAC 2 amps; usable with other receivers having similar requirements. Dimensions and parts vary with availability of materials. SPECIFY receiver type; 10 lbs. KIT, \$32. WIRED, \$40.

DC POWER SUPPLIES from 115 VAC 60 Hz input; our construction: KIT WIRED #24VDC2A, 24 VDC 2 amps, 12 lb \$17 \$22.95 #24VDC4A, 24 VDC 4 amps, 14 lb \$20 \$25.95

TEN THOUSAND VOLT DC TO DC power supplies, p/o Sanders video display. Requires 10-15 VDC 1 amp 5-7 KHz square wave at TTL levels to drive the output amplifier. MODEL 13904 uses 2/2N3055 xistors or equal. MODEL 11665 uses one TO-3 xistor. No schematic. 10x5x6, 5 lbs. #13904 GOOD EXPERIMENTER ITEM \$9.95 #11665 \$7.95

PE-110 POWER SUPPLY FOR BC-669 TRANSMITTER-RECEIVER. INPUT 115 VOLT 60 CYC. OUTPUT 520 VDC @ 420 MA. A 12 VDC VIBRATOR TYPE POWER PACK WITH AN OUT PUT OF 275 VDC @ 64 MA THAT PLUGS INTO THE CHASSIS SERVES AS A RECEIVER STANDBY. INCLD. FOUR 5Z3 TUBES, RESET CIRCUIT BREAKERS, A.C. OUTLETS, AND SUFFIX LETTER, TUBE COMPLEMENT AND SIZE MAY VARY. 20x9x12; 75 LBS. USED REPARABLE \$25

LENKURT MODEL 5047A POWER SUPPLY, INPUT: 115 VAC 60 Hz. OUTPUT: 24 VCT. 10 AMPS AC AND 160V. 150 MA DC. CONSTRUCTED ON AN ALL-ALUMINUM CHASSIS WITH VENTILATED ALUMINUM COVER WITH FLIP-LOCKS. (NOT SHOWN) SIZE: 19 $\frac{1}{2}$ x7 $\frac{1}{2}$ x10 $\frac{1}{2}$  WT: 45 LBS. \$19.95

GILBERT AMERICAN FLYER TOY TRANSFORMER, INPUT: 120 VAC 60 Hz. OUTPUT: 7 TO 18 VOLTS AC. CONTROL READS 0 TO 120 MPH. WITH AC CORD AND OUTPUT BINDING POSTS. SIZE: 3 $\frac{1}{2}$ x5x3 WT: 6 LBS. GILBERT #22034 USED, \$3.95

FGC-29/1660 POWER SUPPLY INPUT 115/230 VOLT 50/60 Hz OUTPUT: 225 VDC 100 MA. 6.3 VCT 4A. 6.3 V 1.5 A. INCL. FIL. 2/2021 TUBES 11 $\frac{1}{2}$ x5 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 23 LBS. REM \$15

FGC-29/1640 Power Supply: INPUT 115/230 V. 50/60 Hz. OUTPUT: 40 VDC 30MA OR 35VDC 40MA 6.3V 1.4A INCL. FILAMENT 6X4. 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ; 8 LBS. REMOVED \$10.

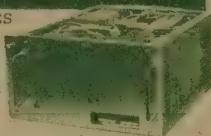
SOLA CONSTANT VOLTAGE DC POWER SUPPLIES; 19" x 6" 40 lbs. sh wt. \$14.95 SOLA # INPUT OUTPUT 28238 180/240 200/260 200 VDC 1.5 A 120 VDC 1.1 A 20 VDC 2.0 A 28239 115/208/230 120 VDC 2.0 A 20 VDC 4.0 A #237 CONSTANT VOLTAGE TRANSFORMER, 6.5 V 25 amp output from 90-130 VAC 60 Hz input, \$15.

**VERY HIGH VOLTAGE**

DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRI-MARY. TWO OUTPUTS: -5.4 TO 5.7 KV. @ 140 TO 300 U-A. ONE OUTPUT: -5.1 TO 5.3 KV. @ 100 TO 270 U-A. SIZE: 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ x4 $\frac{1}{2}$  WT: 10 LBS. GE#T63Y2029G6, USED, \$10.95

## COMPUTER POWER SUPPLIES

SOLID STATE POWER SUPPLIES rated conservatively and constructed on rugged steel frames. Units have front voltage adjust ±10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 Hz. Removed from equipment.



Add \$10.00 to prices for "checked" units.					
RATING	SIZE	SH WT.	NO.	PRICE	
4 V 30 A	13 $\frac{1}{2}$ x7x15 $\frac{1}{2}$	65 lbs	926	\$30.00	
4 V 75 A	19 $\frac{1}{2}$ x7x20	125 lbs	650	\$6.00	
12 V 5 A	9 $\frac{1}{2}$ x7x16	35 lbs	655	\$7.00	
12 V 15 A	13 $\frac{1}{2}$ x7x15 $\frac{1}{2}$	60 lbs	654	\$7.00	
20-24 V 5.5 A	9 $\frac{1}{2}$ x7x20	47 lbs	332	\$35.95	
24 V 12.5 A	13 $\frac{1}{2}$ x7x15 $\frac{1}{2}$	65 lbs	4291	\$30.00	(#4291 is harmonic regulated type)
30 V 3 A	15 $\frac{1}{2}$ x7x19 $\frac{1}{2}$	38 lbs	889	\$27.50	
32-36 V 4.8 A	9 $\frac{1}{2}$ x7x19	37 lbs	3236-48	\$27.95	(#3236-48 includes 12-36 Y conversion info)

DUAL POWER SUPPLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; Two independent regulators w/common buss. 20x12x14, 125 lbs sh. #450, \$60.00

CASH REGISTER POWER SUPPLY WITH 6 VDC GEL-CELL BATTERY OUTPUT FOR MEMORY. ALSO +6, +10, +15, AND -24 VDC FROM 115 VAC INPUT. 8x8x7 $\frac{1}{2}$ ; 22 LBS. SH. ORIGIN ELEC. #008-0202550A, UNUSED, \$45.00

## OPEN FRAME REGULATED

COMPUTER POWER SUPPLY TRANSISTOR REGULATED OPEN CONSTRUCTION WITH ADJUSTABLE VOLTAGE 20% AND CURRENT LIMITING UNITS WHERE QVP IS

NOTED ALSO HAVE ADJUSTABLE OVERVOLTAGE PROTECTION. UNITS ARE IN GOOD CONDITION-REPARABLE. ORDER BY RATING AND PART NUMBER.

RATING	SIZE	SH WT.	NO.	PRICE
5V 2A	14x4 $\frac{1}{2}$ x5	16	I02-01	\$10.95
5V 4A	"	16	I04-33	14.95
8V 4A OVP	"	16	I04-21	14.00
12V 3A OVP	"	16	I04-22	25.00
12V 6A	14x8 $\frac{1}{2}$ x5	23	I018-32	35.00
12V 6A OVP	"	23	I018-22	37.00
30V 3A	"	23	I018-23	22.50
30V 3A OVP	"	23	I018-33	25.00
35-40V 500W OVP,	14x8 $\frac{1}{2}$ x5, 60 LB.	1037-12	\$35	

PS601301 TRANSISTOR REGULATED POWER SUPPLY produces independent +12 VDC 2.7 A. and -12 VDC 1 A. outputs w/overvoltage protection which can be used in series. Also -6.8 V 300 ma output. 9 $\frac{1}{2}$ x5 $\frac{1}{2}$ x7; 16 lbs. Used, \$14.95 Schematic for 115/230 V operation included.

## SCOPE POWER SUPPLY

HFE CRT POWER SUPPLY; HAS 6.5 KV LOW CURRENT OUTPUT. WHEN USED WITH 10 VDC 1.75 AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM 12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 AND -1500 VDC. TRANSISTORIZED WITH COVER AND CONNECTORS. 11x6x5 $\frac{1}{2}$ , 10 LBS. USED, EXC., \$15.95

HFE LOW VOLTAGE POWER SUPPLY; OUTPUT: 10 VDC 1.75 AMPS, ADJUSTABLE -1 V. INPUT: 115 VAC 60 Hz. TRANSISTORIZED WITH FUSE AND CONNECTOR. 10 $\frac{1}{2}$ x6 $\frac{1}{2}$ x4; 12 LBS. REMOVED F/EQUIP., \$7.95 HFE CRT AND LV POWER SUPPLIES AS SET, \$20.00

BREAKER 12.5 VDC 2.5 AMP POWER SUPPLY; 4 AMP SURGE, 4 AMP CIRCUIT BREAKER. 4-5/8x2 $\frac{1}{2}$ x6 $\frac{1}{2}$ ; SHPG. WT: 6 LBS. #13-110, NEW, \$20.

MULTIVOLTAGE POWER SUPPLY; HAS REGULATED OUTPUTS: +12 VDC 500 MA, -12 VDC 500 MA, AND 24 VDC 1 AMP. ALSO 7 VDC 10 AMP UNREGULATED, INTERMITTENT. REG. VOLTAGES ADJUSTABLE OVER SMALL RANGE. INPUT: 115 VAC 60 Hz; 9x5x6, 13 LBS. #LR32605, \$25.

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.

JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15 $\frac{1}{2}$ "Hx5" dia \$10.

MATCHLETT ML-500 HV TUBE, 15 $\frac{1}{2}$ "H x 5" dia. \$12.00

JAN 705A RECTIFIER, 4-pin base. 5"E x 2 $\frac{1}{2}$ " dia. \$5.

JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5 $\frac{1}{2}$ "Hx2 $\frac{1}{2}$ " dia. \$6.

WESTINGHOUSE CL-2 TUBE WITH IN-A-TUBE, 12 $\frac{1}{2}$ "Hx2" dia \$7.



TAYLOR TZ-20 zero-bias Class B audio, 70 W plate dissip; 70 W/pair push-pull. 7.5 V fil, 4-pin base. Old-Unused w/data, \$4.

**MAGNETRONS** MAGNETRON TUBES LESS EXTERNAL MAGNETICS. USED, \$24 EA. SPECIFY: 2J26 (2992-3019 MHZ); 2J28 (2939-2965 MHZ); 2J29 (2914-2939 MHZ); 2J39 (3267-3333 MHZ); 2J61 (2992-3100 MHZ); 2J62 (2914-3019 MHZ); 725A (USED IN APS-4 RADAR).

S-300 TUBE (OPEN FILAMENT), 10" LG. 3" DIA. AS-IS, \$4.

**800 MHZ** TRANSMITTING TUBE 8012-A TRIODE

DIRECT WIRE FILAMENT: 6.3 V. 1.92 AMPS. MAX. PLATE: 1000 V. 80 MA. 40 W CAP: G-F 2.7; P-F 0.4; G-P 2.5 MU 18; GRID CURRENT 20 MA

CLASS "C". TELEGRAPHY 35 W DATA, UNUSED, TELEPHONY 20W \$2.00 EA. 4 FOR \$6.

8025 TRIODE, same as 8012 but 4-pin base, \$3.

ELECTRONIC PHOTO-FLASH TUBE R4330 SYLVANIA, OPERATING VOLTAGE 2250, 6 FLASHES PER MIN 100 WATT-SEC/FLASH MAXIMUM, PEAK LIGHT OUTPUT 12,000,000 LUMENS, INTERGRATED LIGHT OUTPUT 3500 LUMEN SEC. FLASH. \$10 OCTAL CER.SOC. 50%

## FIELD TELEPHONES

EE-8 FIELD TELEPHONE, PORTABLE HAND-RINGING MAGNETO TYPE UNIT. OPERATES FROM TWO "D" CELL BATTERIES (NOT INCL.). TWO OR MORE CAN BE USED IN A TWO-WIRE SYSTEM UP TO 17 MILES IN LENGTH. WITH CARRYING CASE AND STRAP. 8x10x3 $\frac{1}{2}$ ; 18 LBS. USED, CHKD. \$50.

TP-3 FIELD TELEPHONE, PORTABLE, SAME AS EE-8 EXCEPT THIS UNIT DOES NOT REQUIRE FLASHLIGHT BATTERIES BECAUSE IT USES A SOUND POWERED HANDSET. SIZE: 8x10x4; 18 LBS. USED, CHKD \$55

H-102 TELEPHONE HANDSET & SIGNALING UNIT FOR COMMUNICATIONS WHERE VOLTAGE IS AVAILABLE FOR OPERATING THE HANDSET AND THE UNIT'S RINGING CIRCUIT. REQUIRES 3 & 6 VDC. SIMILAR TO EE-8. 8x10x4; 15 LBS. USED, CHECKED, \$30.

## 12 VDC 4 AMP SUPPLIES

STACO SOLID-STATE 4 AMP DC POWER SUPPLIES-NEW-- \*\*\*\* \* #FPS-4, filtered 12 V; 5x3x5 $\frac{1}{2}$ , 5 lbs sh. \$12.95 /\$22. #RPS-4, filtered and regulated 13.8 VDC; 5x3x6 $\frac{1}{2}$ , 7 lbs sh wt. \$18.95 ea. 2/\$35.00

12 VDC 3.5 AMPS and 4 VDC 17.5 AMPS from 115 VAC 60 Hz input; has current limiting and overvoltage protection. 4 V output adjusts to 5 V; 14x8 $\frac{1}{2}$ x8, 35 lbs sh. #9566WC, \$30.00 #9566-LC, same as above power supply only less regulator cards. Has output transistors and heatsinks; nice foundation, \$20.

230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #3930, NEW, \$22





## BOOKS & TECH MANUALS

**TEAMS:** All manuals include maintenance info & schematic unless noted otherwise. O.I. Operating info only N.S. No schematic repro -Partial reproduction w/operating, maintenance info & schematic.

\$3.00 each	\$5.00 each
AM-598	FP-1175
PP-867-868	FU-143C
-869	RD-60
PP-281-282	AN/3SC-1
-484	I-208
PP-846	AN/PDR-27
DY-92-88-100	
ARC-27 0-I.	
ARN-59 0-I.	

\$7.50 each
BC-312-342
BC-603-604

\$5.00 each
RT-66-67-68
RT-70
AM-65
R-520 (mil-Zenith Transoceanic)
EC-1000
EC-1335
AN/FRC-6
PRC-9A-10A
AN/GRR-5
R-108-109
EC-221LAH only
JX-28 repro
G-36 repro
PP-804
T-278-416
PP-100-112
AN/ARN-12
AN/CRT-3

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RT-66-67-68
RT-70
AM-65
R-520 (mil-Zenith Transoceanic)
EC-1000
EC-1335
AN/FRC-6
PRC-9A-10A
AN/GRR-5
R-108-109
EC-221LAH only
JX-28 repro
G-36 repro
PP-804
T-278-416
PP-100-112
AN/ARN-12
AN/CRT-3

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PP-100-112
AN/ARN-12
AN/CRT-3

\$5.00 each


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## 125-390 MHz RECEIVER



R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 KHz steps; ten preset channels. Audio freq response: 200 Hz-20 KHz (wide), 200-5 KHz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 12½x19½x20, 115 lbs sh wt. Used, less guard channel, repairable, \$150.00 MANUAL, partial repro, \$15. Schematic, \$2.50

## 1-648/ARR-41 RECEIVER

R-648/ARR-41 RECEIVER 190-550 KHz and 2-25 Mhz AM-CW in five bands. Mechanical digital-type tuning in 1 KHz steps. 500 KHz final IF; mechanical filters 1.4 and 6.0 KHz. Controls for BFO, sensitivity, broad-sharp voice or CW, and dial lock. With tubes 2/5726, 7/5749, 2/5750, 2/5814, 5654, 5636, 6AU6, and OA2. Requires 24 VDC 4 amps input for dynamotor. 7½x16x13½, 35 lbs sh. Used, repairable, \$145.00; Checked, \$205.00 MANUAL, partial repro, \$15. Schematic, \$2.50 Power input connector, \$3.00 w/set purchase.

## 2-32 MHz SSB RECEIVER

AN/FRR-59A TRIPLE CONVERSION SSB RECEIVER WITH FULL CARRIER SUPPRESSION FROM 2 TO 32 MHZ IN FOUR BANDS: (2-4) (4-8), (8-16), AND (16-32) MHZ. RECEIVES LSB, USB, AM, CW, AND MCW SIGNALS; LSB AND USB RECEPTION POSSIBLE SIMULTANEOUSLY OR SEPARATELY. INCREMENTAL OR CONTINUOUS DIGITAL TUNING IN 0.5 KHZ STEPS. INTERMEDIATE FREQUENCIES (IF): 1625-1725 KHz, 220 KHz, AND 80 KHz. BUILT-IN 1 MHZ CRYSTAL CALIBRATOR. AF LINE OUTPUT: 60 MW INTO 600 OHMS (MIN.); PHONE OUTPUT: 15 MW INTO 600 OHMS (MAX.). RECOMMENDED ANTENNA TERMINAL IMPEDANCE: 50 OHMS. USES 7- AND 9-PIN 6.3 V. glass tubes. Requires 105-125 VAC 50/60 Hz; 25½x22x24, 300 lbs sh. Connectors to make interconnect cables and partial repro of manual included. Used-not checked, \$250.00

AM-777 AMPLIFIER-DETECTOR, PART OF RT-128A/ARC-21 (2-24 MHZ) TRANSCOM. 1ST IF-1800 KHz; 2ND IF-300 KHz. REQUIRES 1800 KHz SIGNAL INPUT AND 500 KHz INPUT FOR MIXER AND TRIPLEX STAGES. SLUG-TUNE ADJUSTMENT. WITH TUBES 4/5636, 3/5896, 3/5899, 3/6021, 5840, 5902, AND 5719. SCHEMATIC INCLD. 13½x2x3½, 5 LBS. SH. \$10.00

## 1700-2400 MHz RECEIVER

R-418/TRC-29 MICROWAVE RECEIVER WITH PP-690 AC POWER SUPPLY. FREQUENCY RANGE: 1700-2400 MHZ FM UTILIZING 27 PRESET CHANNELS. IF=120 MHz; VIDEO OUTPUT: 30 Hz to 4.5 MHz, -3 to +7 DBM, 158-500 MV-RMS. NOISE FIGURE: 14-16 DBM. 50 OHM ANTENNA INPUT. HAS TWO METERS FOR CIRCUIT TEST AND ALIGNMENT PROCEDURES. RECEIVER USES 6BM6 KLYSTRON OSCILLATOR AND 28 OTHER TUBES. POWER SUPPLY HAS 18 TUBES. POWER REQUIRED: 115 VAC 60 Hz. SIZE: 19½x19½x19¾ (R-418); 12½x19½x19¾ (PP-690). SHPG. WT: 200 LBS. Unused, \$165.00

TMC SBE-3 OSCILLATOR, for use with TMC 2-32 Mhz transmitters and power amps; used, \$165.

T-282/GRC TRANSMITTER, single channel 100 W in 225-399.9 Mhz range; uses 3/4X150A's. Companion to R-278/GRC; 150 lbs. Used \$125.

## 0.2 TO 30 MHZ SSB

G133 HF RECEIVER, 0.2 to 30 Mhz SSB, AM, & CW in thirty continuously tunable bands. Set

is a Collins 51S1 receiver repackaged by LTV-Temco for military airborne use. It has extended lower frequency range plus a jack for a 14-600 KHz tuner, AM BFO, and extra electronic filtering. Crystal check points every 100 KHz. Final IF 500 KHz. AM BFO variable from 485 to 515 KHz. Controls for CW-LSB-USB-AM, Rejection Tuning, and meter switch RF-10DERM-ODRM. Input impedance: 50 ohms. Audio output imped: 4 or 600 ohms. Matching phone patch imped: 500-600 ohms. With tubes 5/6EA8, 3/6BA6, 2/12AX7, 2/6136, 6CD6, 5670, 6BF5, and 6AK6. Requires 115/230 VAC 50-60 or 400 Hz; also 24 VDC 168 ma for the AM BFO only. 6½x18x13; 40 lbs sh wt. Used, repairable, \$695.00; Checked, \$650.00 MANUAL, partial repro, \$15 w/purchase of G133.

## COLLINS 180L-3

COLLINS 180L-3 AUTOMATIC ANTENNA COUPLER, usable with transceivers in the 2-25 Mhz range, 50-180 watts. Automatically resonates an antenna to a transceiver's frequency and couples the RF signal between the transceiver and antenna. Also trans-

and antenna. Also transfers antenna to receiver or receiver section after the transmitter is unkeyed. Coupler has 7-970 pf 3 KV vacuum variable capacitor and variable ribbon 32 uH inductor; also smaller roller inductor and SWR meter circuit. Requires 28 VDC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10½x7½x11½, 24 lbs sh wt. Used, \$109.50; Manual, partial repro, \$10.

LS-128A/F INTERCOM STATION, consists of a three tube audio amp in metal cabinet w/speaker, Idle-Listen-Talk switch, and switching for upto 24 remote stations. Input-output impedance 50 or 500 ohms; speaker 45 ohms. Audio output: 2½ watt. Includes terminal block on 5' cable and 6V6, 6X5, and 6S37 tubes. 13½x7½x7, 23 lbs sh. Used, \$18.95; unused \$27.95. Manual \$5/set.

**AIRCRAFT SIGHT**  
OPTICAL GUN SIGHT p/o APG-59; has 3-3/8" dia convex lens, 4" dia polarizing filter, and two coated view glasses—one 4½" dia, the other 4" dia. Polarizer adjusts on scale marked VEL 25-50-100-200; 0-200 vernier scale for adjusting plexiglass viewing screen. Also includes 3 push buttons, bubble level, and transformer marked "47 WV." Plexiglass screen chipped at edges; no further info. Looks like item for the collector or experimenter. 6x7½x7, 15 lbs sh wt. #OPS-1900, used, \$22.95

## INFRARED BEACON

US/X9B NAN INFRARED BEACON, originally used on landing craft or on shore for clandestine signaling. System consists of gray painted brass lamp assembly with 100 watt 12 VDC bulb and 4½" dia. X 4" high infrared glass dome, control box with manual signaling key (provision for automatic key), two section brass and wood 63" mast, 25' power cable, and steel spares box containing extra bulb, dome, and hardware. Infrared-sensitive optics required for detection of this beacon. Instruction book included. Stored by govt. since 1945. Re-boxed in two 27 lbs cartons. Unused \$29.95

## RT-311 TRANSCEIVER

RT-311/ARC-38 AM TRANSCOM, 2.0 to 25 Mhz from 20 preset channels. Frequency interval: 500 Hz (2.0-7.25 Mhz) and 1000 Hz (7.25-25.0 Mhz). Has

autotune from channel to channel. Minimum peak output 100 watts (2.14.25 Mhz), 90 watts (14.25-25 Mhz). Antenna tune power: 50 watts. 40 db carrier suppression. Receives AM or CW; sensitivity 5 uv for 6 dB signal (phone). Selectivity: 7.5 KHz min ± 6 db, 20 KHz max ± 60 db or 1.8 KHz min ± 6 db, 5 KHz max ± 60 db when in CW sharp position. Unit has VFO and 25 tubes including three 6195's in power amp. Requires 28 VDC, 600 VDC, 250 VDC, -50 VDC, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15½x8x2½, 65 lbs sh. Used, not checked, \$85.00 MANUAL, partial repro, \$15 w/set purchase.

COLLINS 618S-1 TRANSCEIVER, similar to RT-311/ARC-38 but without VFO. Crystal-controlled AM receiver, \$45.00. Schematic, \$3.00

618S-1/MC TRANSCEIVER, modified for SSB by RCA, xtal-controlled, \$99.95. Schematic, \$8.

RT-594/ARC-38A SINGLE SIDEBAND TRANSCOM, similar to RT-311/ARC-38 except has SSB capabilities. Used, not checked. \$145.00

RT-311/ARC-38 or RT-594/ARC-38A replacement modules removed from sets. Write your needs.

C-1398/ARC-38 CONTROL BOX for control and frequency selection of ARC-38. Twenty preset channels or manual in 500 Hz steps. With code book. Most functions operable with ARC-38A SSB set except for function switch which would have to be disabled and provision for side band reception added. 7½x5x6, 14 lbs. Used, \$16.95; Schematic, \$2 if bought w/Box.

## AIRCRAFT TRANSCEIVER

RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 Mhz AM in 50 KHz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 8156, 2/8102, 6/6CW4, and 6/7587. Schematic not available. Size: 6½x3½x14; 10 lbs. sh. Used, no cover, \$54.95

## GIBSON GIRL

T-74/CRT-3 SEA RESCUE TRANSMITTER, famous "Gibson Girl" used in WW-II and still used by U.S. Navy; operates on distress frequencies of 500 and 8864 KHz. Powered by hand-cranked generator and automatically sends SOS signals; can also be keyed by hand with 1 KHz tone on 500 KHz. Outer case dented but otherwise complete with AS-207 antenna wire, generator, and hand crank. 10x8x10, 18 lbs. Used, \$39.50 BC-778 TRANSMITTER, identical to T-74/CRT-3 but sold less antenna wire assembly, \$29.50

MANUALS for T-74 or BC-778, \$7.50 each BG-155 BAGS without lacing, used, \$16.00 ea M315 HYDROGEN GENERATOR with either lithium or calcium hydride crystals, dented can \$10. INFLATING TUBE for use with M315, \$2.50 M308 SIGNAL LAMP, connects to xmitter and lights when transmitting; unused, \$2.50 ea.

AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 MHZ IF. HAS 115 V 60 Hz MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, IN21B, IN21WE. 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9½x8; 30 LBS. SH. USED, \$50.00

## OSCILLATOR

OSCILLATOR-AMPLIFIER ASSEMBLY WITH 726B klystron and two 717A tubes that were designed to be used in the 2800-3000 Mhz range. No further information available. 6x5x4, 7 lbs sh wt. Western Electric #D-150815, unused, \$18.

ROLLER INDUCTOR ASSEMBLY with motor drive. 3.4" long x 1.75" dia. coil; 28 turns #18 wire. Approx. 14 uH with center tap. 115 VAC 400 Hz 20 watt motor turns the coil. Originally used to automatically resonate an antenna to a transceiver's frequency. O/A 4x2x1x3; 5 lbs. sh. #T301/CU-991, \$14.95

CRYSTAL CALIBRATOR, utilizes 100 KHz crystal to generate harmonics in three ranges: 10 KHz, 100 KHz, and 1000 KHz. Works from 1-30 Mhz on 1000 KHz, 100 KHz-10.5 Mhz on 100 KHz, and 10 KHz-10 Mhz on 10 KHz. Designed for use with Canadian No. 19 Mark III receiver-transmitter. Has three 12SC7 tubes; requires 12 VDC 500 ma, 265 VDC 2.5 ma. 2x9x4, 7 lbs sh. Used, \$12.95

TRANSISTORIZED GUARD RECEIVER r/ modified RT-178/ARC-27; replaces tube type. Designed for single guard channel in 238-248 Mhz range. 1st IF 25.1 Mhz; 2nd IF 3.45 Mhz. Has detector, noise limiter, and AVC sections; 4/2N1745 transistors and 25.1 Mhz filter. IF, RF, and audio sections are gold-washed. 8x4x4, 6 lb sh wt. #5821-953-9695, used, \$12.95

## VFO - EXCITER - MOD

VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 Mhz. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH  $\frac{1}{2}$ x3/16" DIA. SHAFT. 2x3x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT, \$7.95

EXCITER STAGE FROM T-195, USED TO AMPLIFY VFO OUTPUT AND SUPPLY DESIRED TRANSMITTING FREQUENCY TO POWER AMP. SLUG TUNED IN RANGES (1.5-3), (3-6), (6-12), AND (12-20) MHZ. WITH TUBES 6AU6, 2/6AK6, AND 5749. SIZE: 4x3x8, 12 LBS. EXC/T-195, \$14.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 Hz AND 3500 Hz BANDPASS. W/ TUBES 5726, 2/12AT7, 5814, LESS 4X150, TUBES AND SOCKETS. 8x6x4, 6 LBS. \$10.95

## TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHTWEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 MHZ, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2 $\frac{1}{2}$ " DIA. X 6". OVERALL SIZE: 7 $\frac{1}{2}$ x4x5 $\frac{1}{2}$ . SHPG. WT: 4 LBS. FRIEZ #3002, UNUSED, \$9.95

F-69F/AMT-2 RADIOSONDE TRANSMITTER ONLY. F-2 EMISSION (FM) 390 TO 410 MC RANGE WITH TUBES 5703 AND 5910. REQUIRES BB-208 DRY CELL BATTERIES (SOLD SEPARATELY). SIZE: 6x5x2 $\frac{1}{2}$  WT: 2 LBS. \$1.50 BB-208 DRY CELL BATTERY SET WT: 1 LB. \$2.00

## TCS RECEIVER



NAVY TCS RECEIVER COVERS 1.5 TO 12 MHZ AM IN THREE BANDS; CONTINUOUS TUNING OR FOUR CRYSTAL-CONTROLLED CHANNELS. AUDIO OUTPUT: 1.5 MW INTO 500 OHM LOAD. WITH TUBES 2/12A6, 12SA7, 3/12SK7, AND 12SC7. POWER REQUIRED: 220 VDC 100 MA AND 12 VDC SIZE: 11x11x13 $\frac{1}{2}$ ; SHPG. WT: 42 LBS. NET: 37 LBS. PRICE: USED, REPARABLE, \$19.95 CHECKED, \$50.00

## BALLISTICS CONTROL



SPERRY C-1 BALLISTICS CONTROL, appears to have been part of aircraft bombardier's equipment. Has controls and dials for "Time of Fall," "Trail," "Altitude," "N-S Offset," and "E-W Offset." Also contains selsyns six AY-232, two AY-201, and two Sperry R5663478. Looks like a nice aviation collector's item. 12x8x7 $\frac{1}{2}$ , 22 lbs sh. Used, \$22.00

## BENDIX TRANSMITTER

BENDIX TA-12B TRANSMITTER, 40 WATTS OUTPUT CW, MCW AND PHONE FROM 300 TO 600 KHZ AND 3000 TO 7000 KHZ. EACH OF THE FOUR CHANNELS HAS ITS OWN OSCILLATOR, OSC. TUNING, AND LOADING. 0-5 RF AMMETER MONITORS ANTENNA CURRENT. WITH TUBES 4/12SK7 AND 3/807. ORIGINALLY USED WITH MP-28B 24 VDC 15 AMP DYNAMOTOR-MODULATOR (NOT AVAILABLE). POWER REQUIRED: 24 VDC 3 AMPS, 260 AND 400 VDC EXTERNALLY MODULATED. SIZE: 10 $\frac{1}{2}$ x15x11; WT: 40 LBS. USED, \$39.50

## MIRRORED REFLECTOR

INFRARED NIGHT VISION REFLECTOR originally used on tanks. 23"x16" mirrored surface focuses light about 12" above center. Heat created can "smoke" wood on sunny day. 4 $\frac{1}{2}$ " fall from extreme perimeters to center. Surface may have scratches. Nice experimenter's item. 12 lbs, used, \$25.

## ACCURAY SWITCH DEVICE

ACCURAY DIGITAL SWITCH, has access key lock that actuates a SPDT switch connected in circuit to a lighted push button "enter" switch. Unit also has four section decimal-coded thumb switch--each section numbered 0 thru 9--and 15" input/output cable with connector. In 8x4x5 steel case with flange mount. 8 lbs shwt. #ACCU-DS, used, \$12.95



not work with steel doors. 2 lbs sh. NEW. #DRS-AC, loud clacker, 115 VAC 60 Hz, \$8.95 #DRS-DC, w/Sonalert, 9 V battery req., \$9.95



GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. \$7.50 EA. OR TWO CARTONS FOR \$13.00.

SHIPPED VIA UPS WITH FREIGHT CHARGES VARYING FROM \$5 TO \$16 PER CARTON. ALLOW FOR FREIGHT. GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MINIMUM WEIGHT RATES.

## DIGITAL DISPLAY

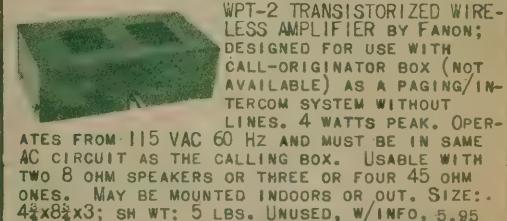
DIGITAL DISPLAY: EACH UNIT WILL SHOW NUMBERS 0 TO 9 ALSO \$ SIGN 3-3/16" HIGH ON 3 $\frac{1}{2}$ x4 SCREEN THAT CAN BE SEEN FOR QUITE A DISTANCE. OPERATES FROM 6.3 VAC. CAN BE ADAPTED FOR BASKETBALL FOUL INDICATOR BY PLACING ONE OVER EACH SCOREBOARD AND HAVE A CONTROL PANEL CONSISTING OF 5 SWITCHES AND TRANSFORMER AT THE SCORER'S TABLE. (WIRING DIAGRAM FURNISHED ON REQUEST) CAN ALSO BE ADAPTED FOR USE AS A MOVING READOUT BOARD. SIZE: 3 $\frac{1}{2}$ x5x1 $\frac{1}{2}$ ; WT: 7 LBS. PRICES: \$3.95 EA. 3 FOR \$10.00



WEBCOR TAPE RECORDER, plays and records @ 3 $\frac{1}{2}$  or 7 $\frac{1}{2}$  ips; accepts up to 7" dia reels. Has standard features fast forward/rewind plus edit lever, footage counter, and 20-0-20 record level indicator. Also mic, bridge, and external speaker jacks, and built-in speaker. Monaural use only; 100-10000 Hz response 7 $\frac{1}{2}$  ips. Mic input impedance: 500K ohms. With tubes 12AU7, 12AX7, 6X4, 6B65, SHU6, & 7025. Requires 115 VAC 60 Hz. 13x12x7 $\frac{1}{2}$ , 32 lbs sh. Units checked for basic playback/record; may need further adjustments. Mic and reels not included. #WEBCOR-173B, used, \$34.95 MANUAL for above, partial repro, \$8.50



AN-USM-63 BATTERY TESTER, includes TS-737 meter and MX-1678 load box. Tests ni-cad batteries with or without load and charging. Range: 1-1.7 VDC using probe; 25.2-34.1 VDC at binding posts. TS-737 (8 $\frac{1}{2}$ x6 $\frac{1}{2}$ x4 $\frac{1}{2}$ ) is dual range voltmeter with 2.811 load resistor. MX-1678 (14x6 $\frac{1}{2}$ x5 $\frac{1}{2}$ ) has two 5.6K 300 W resistors in parallel. 18 lbs sh. USM-63, Used, \$30.00.



WPT-2 TRANSISTORIZED WIRELESS AMPLIFIER BY FANON; DESIGNED FOR USE WITH CALL-ORIGINATOR BOX (NOT AVAILABLE) AS A PAGING/INTERCOM SYSTEM WITHOUT LINES. 4 WATTS PEAK. OPERATES FROM 115 VAC 60 Hz AND MUST BE IN SAME AC CIRCUIT AS THE CALLING BOX. USABLE WITH TWO 8 OHM SPEAKERS OR THREE OR FOUR 45 OHM ONES. MAY BE MOUNTED INDOORS OR OUT. SIZE: 4 $\frac{1}{2}$ x8x3; SH WT: 5 LBS. UNUSED, W/ INFO, \$5.95

## ANTI-JAMMING TRAINER

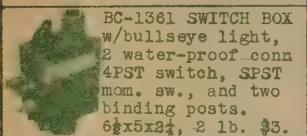
AN/ULT-T2 (15x12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 MHz/sec sweep, 250-500-1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 KHz variable and fixed 50 or 100 KHz. Audio output impedance 800 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn and transit case. 13x19 $\frac{1}{2}$ x19 $\frac{1}{2}$ , 110 lbs sh wt. Used, \$39.50 \$80.

AN/ULT-T4 (15x18) INTERFERENCE TRAINER, similar to ULT-T2 except covers L-Band (1220-1350 Mhz) and uses 2C38 klystron. With antenna horn and transit case. 17x23x18 $\frac{1}{2}$ , 100 lbs sh. Used, \$105.00 \$85. MANUALS for ULT-T2 or ULT-T4, \$10 each w/set.

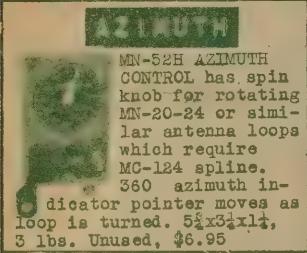
# Control Boxes Filters Indicators Tuning Units Amplifiers



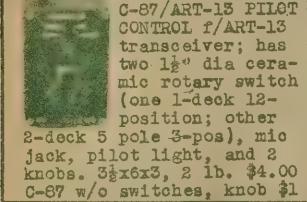
ALARM BELL  
OPERATES FROM  
24 VOLT D.C.  
SIZE: 4 1/2" x 4 1/2" x 2 1/2"  
WT: 1 LB #561-3  
NEW \$1.95



BC-1361 SWITCH BOX  
w/bullseye light,  
2 water-proof conn  
4PST switch, SPST  
mom. sw., and two  
binding posts.  
6 1/2" x 5 1/2", 2 lbs. \$3.



MN-52H AZIMUTH  
CONTROL has spin  
knob for rotating  
MN-20-24 or simi-  
lar antenna loops  
which require  
MC-124 spline.  
360 azimuth in-  
dicator pointer moves as  
loop is turned. 5 1/2" x 1 1/2",  
3 lbs. Unused, \$6.95



C-87/ART-13 PILOT  
CONTROL f/ART-13  
transceiver; has  
two 1 1/2" dia cera-  
mic rotary switch  
(one 1-deck 12-  
position; other  
2-deck 5 pole 3-pos), mic  
jack, pilot light, and 2  
knobs. 3 1/2" x 6 1/2", 2 lbs. \$4.00  
C-87 w/o switches, knob \$1



SA-3 IMPACT SWITCH  
SPST, 10 A. NORM.  
OPEN USED IN AIR-  
CRAFT TO TURN ON  
DETONATOR CIRCUIT  
WHEN CRASH OCCURS.  
10 "G" OF FORCE.  
HORIZONTAL PLANE. \$1.95 EA.



LS-230 INTERCOMMU-  
NICATION STA-  
TION CONTROL BX  
CONTAINS 3 ROT-  
ARY 3 POSITION  
LEVER CONT. SW  
1 LEVER SW. DP  
DT CENTER OFF,  
1 LEVER SW. SPST 1 SIDE,  
OTHERSIDE SPST MOM. & CENTE  
OFF. 3 LITE IND. PHONE &  
MIKE JACK & 1 MIN. TRANSFOR  
50 TO 500 OHM. SIZE: 7 1/2" x 2 1/2"  
WT: 3 LBS. PRICE: \$5.95



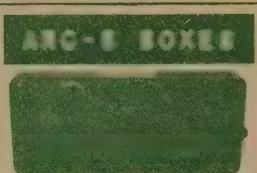
DELAY LINE ASSEMBLY with  
three ESC 71-261 continuous  
variable DL's, each  
with 0.5 usec delay, 750  
impedance, and screwdriver  
adjust control. Also five  
ENC connections. 10 1/2" x 2 1/2",  
3 lbs. #J915-650-3805



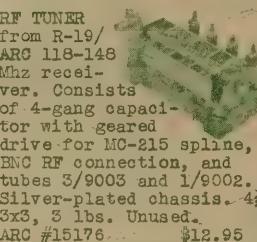
PRISM from M4A1 tank peri-  
scope. 5 1/2" view area.  
Peak around corners or use  
to direct light. 0/A 6 1/2" x 2",  
2 lbs. Used \$2.75 2/\$5.



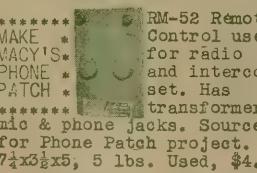
RIGHT ANGLE  
DRIVE vernier  
control, 1 1/2"  
dia. dial, w/  
lock & coup-  
ling f/1" shf  
3-hole mtg. #TU-10RA, \$2.



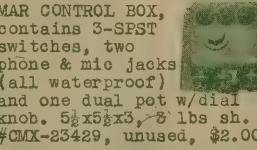
BC-450 RECEIVER CONTROL f/  
tuning upto 3 receivers.  
W/dials 190-550 KHz, 3-6  
MHz, & 6-9.1 MHz; CW-off  
-MCW switches, volume con-  
trols, and phone jacks.  
9 1/2" x 5 1/2" x 3, 3 lbs. Unused \$8.



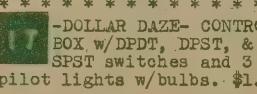
RF TUNER  
from R-19/  
ARC 118-148  
MHz receiv-  
er. Consists  
of 4-gang capaci-  
tor with geared  
drive for MC-215 spline,  
BNC RF connection, and  
tubes 3/9003 and 1/9002.  
Silver-plated chassis. 4 1/2"  
x 3x3, 3 lbs. Unused.  
ARC #15176 \$12.95



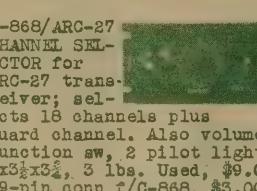
\*\*\*\*\* RM-52 Remote  
\*MAKE \* Control used  
\*MACY'S\* for radio  
\*PHONE \* and intercom  
\*PATCH \* set. Has  
\*\*\*\*\* transformer,  
mic & phone jacks. Source  
for Phone Patch project.  
7 1/2" x 2x5, 5 lbs. Used, \$4.



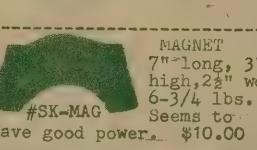
MAR CONTROL BOX,  
contains 3-SFST  
switches, two  
phone & mic jacks  
(all waterproof)  
and one dual pot w/dial  
knob. 5 1/2" x 5", 5 lbs. sh.  
#CMX-23429, unused, \$2.00



\*\*\*\*\* 17-DOLLAR DAZE - CONTROL  
BOX w/DPDT, DPST, &  
SPST switches and 3  
pilot lights w/bulbs. \$1.



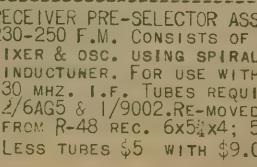
C-868/ARC-27  
CHANNEL SEL-  
ECTOR for  
ARC-27 trans-  
ceiver; sel-  
ects 18 channels plus  
guard channel. Also volume,  
function sw., 2 pilot lights  
6 1/2" x 3 1/2", 3 lbs. Used, \$9.00  
19-pin conn f/C-868, \$3.00



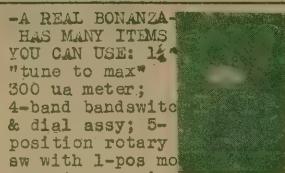
MAGNET  
7" long, 3"  
high, 2 1/2" wd.  
6 3/4 lbs.  
#SK-MAG  
Seems to  
have good power. \$10.00



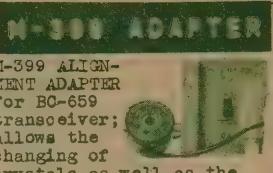
BC-728 RECEIVER FRONT END  
ONLY; 2-6 MHZ. ANT., R.F.,  
OSC., BAND SW. & PUSH-BUTT-  
ON ASSY. FOR 455 KHZ INPUT  
4 CHANNELS PRESET FREQ.  
RANGES(A 2-2.6)(B 2.6-3.5)  
(C 3.5-4.5) (D 4.5-6.0) NEW  
204728A/T4W/SCHEMATIC \$5.95



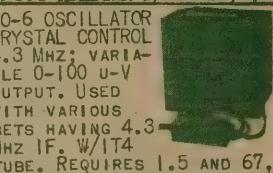
RECEIVER PRE-SELECTOR ASSY.  
230-250 F.M. CONSISTS OF RF  
MIXER & OSC. USING SPIRAL  
INDUCTUNER. FOR USE WITH  
30 MHZ. I.F. TUBES REQUIRE  
2/6AQ5 & 1/9002. REMOVED  
FROM R-48 REC. 6 1/2" x 4", 5 LB  
LESS TUBES \$5 WITH \$9.00



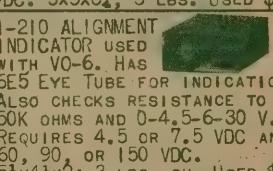
"tune to max"  
300 ua meter;  
4-band bandswitch  
& dial assy; 5-  
position rotary  
sw with 1-pos mo-  
mentary; spin  
crank for tuning with 10-  
turn pot; volume control  
w/3-gangs; five 327 lamps;  
Loop switch (L or R momen-  
tary); SPST toggle sw; and  
other parts. Originally  
used in aircraft to tune  
R101/ARN-6, 6 lbs sh wt.  
#C423/ARN-6 used \$6; 2/\$10.



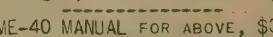
M-399 ALIGN-  
MENT ADAPTER  
for BC-659  
transceiver; allows the  
changing of  
crystals as well as the  
alignment of the set without  
the use of an external  
meter. Mounts inside the  
BC-659. 2 lbs. \$5.00  
M-394 ADAPTER f/BC-620, \$5.



VO-6 OSCILLATOR  
CRYSTAL CONTROL  
4.3 MHZ; VARIA-  
BLE 0-100 u-V  
OUTPUT. USED  
WITH VARIOUS  
SETS HAVING 4.3  
MHZ IF. W/IT4  
TUBE. REQUIRES 1.5 AND 67.5  
VDC. 5 1/2" x 3 1/2", 5 LBS. USED \$8



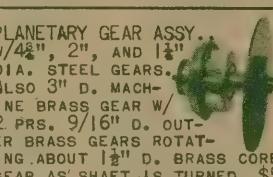
I-210 ALIGNMENT  
INDICATOR USED  
WITH VO-6. HAS  
665 EYE TUBE FOR INDICATION  
ALSO CHECKS RESISTANCE TO  
50K OHMS AND 0-4.5-6-30 V.  
REQUIRES 4.5 OR 7.5 VDC AND  
60, 90, OR 150 VDC.  
5 1/2" x 2", 3 LBS. SH. USED \$9



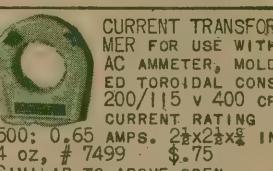
SWITCH ASSY.  
FUEL LEVEL  
CONTROL.  
24 vdc 3 amp.  
7" cylinder, 2 1/2" dia.  
United Controls N7-1-16-\$10



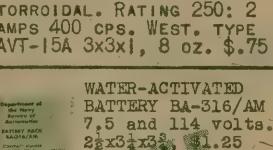
4 "D" BATTERIES (NOT INCLD)  
5 1/2" x 2 1/2"; 4 LBS. #E54R1, \$5



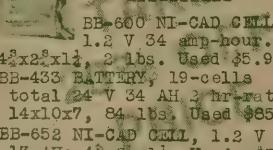
W/4", 2", AND 1 1/2"  
DIA. STEEL GEARS.  
ALSO 3" D. MACH-  
INE BRASS GEAR W/  
2 PRS. 9/16" D. OUT-  
ER BRASS GEARS ROTAT-  
ING ABOUT 1 1/2" D. BRASS CORE  
GEAR AS SHAFT IS TURNED. \$5



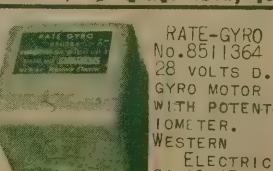
CURRENT TRANSFORMER  
FOR USE WITH  
AC AMMETER, MOLD-  
ED TOROIDAL CONST  
200/115 V 400 CPS  
CURRENT RATING  
500: 0.65 AMPS. 2 1/2" x 2 1/2" IN.  
4 oz. #7499 \$ .75  
SIMILAR TO ABOVE OPEN  
TOROIDAL. RATING 250: 2  
AMPS 400 CPS. WEST. TYPE  
AVT-15A 3x3x1, 8 oz. \$ .75



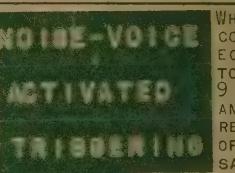
WATER-ACTIVATED  
BATTERY BA-316/AM  
7.5 and 114 volts.  
2 1/2" x 3 1/2", 1.25



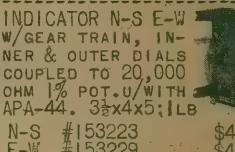
BB-600 NI-CAD CELL,  
1.2 V 34 amp-hour.  
4 1/2" x 2 1/2", 2 lbs. Used \$5.95  
BB-433 BATTERY, 19-cells  
total 24 V 34 AH 3 hr-rate  
14x10x7, 8 1/2 lbs. Used \$65.  
BB-652 NI-CAD CELL, 1.2 V  
13 AH; 4 1/2" x 2 1/2". Used, \$3.



RATE-GYRO  
NO. 8511364  
28 VOLTS D.C.  
GYRO MOTOR  
WITH POTENTIOMETER.  
WESTERN  
ELECTRIC  
GA-10147-3  
SIZE: 2 1/2" x 2 1/2" x 4"; WT: 3 LB. \$8.95



WHEN CONN-  
ECTED TO 6-  
9 VOLTS  
AND A  
RELAY OF THE  
SAME  
VOLTAGE THE RE-  
LAY CAN BE ACT-  
IVATED BY NOIS-  
E OR VOICE. UNIT CONSISTS OF  
CRYSTAL MIC. TRANSISTOR, SC-  
2 CAP. 3 RES. AND A TRIMME-  
POT. FOR ADJUSTING SENSITI-  
VITY. W/SCHEMATIC/LESS BAT-  
TERY AND RELAY. SIZE: 1 1/2" x 1"; 2 OZ.  
LEE #5355, \$1.00 EACH.



INDICATOR N-S E-W  
W/GEAR TRAIN, IN-  
NER & OUTER DIALS  
COUPLED TO 20,000  
OHM 1% POT. U/WITH  
APA-44. 3 1/2" x 4x5; 1 LB  
N-S #153223 \$4.95  
E-W #153229 \$4.95



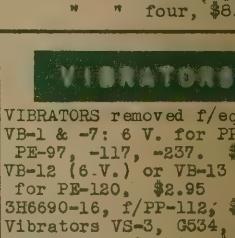
CALCULATOR  
KEYBOARD,  
17 BUSINESS-  
SIZE KEYS.  
EACH SWITCH  
REMOVABLE;  
CONTACTS AC-  
CESSIBLE. SP4P SLIDE SWITCH  
USED, EXC. NCR#0092, \$3.95



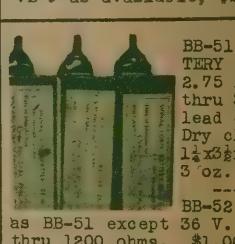
16 KEY KEYBOARD  
BY MICRO SWITCH  
CONTACTS RATED  
12V 6MA TO SIN-  
GLE COMMON BUS.  
BUTTONS .5x.5x.2.0 THRU 9  
RESET, DELETE, CARD NO.,  
\$ AMT, PROCESS, FCT. SIZE  
3x3x1 #16W3-44 NEW \$6.95



DURANT UNI-  
PULSER II  
COUNTER, e-  
lectromech-  
anical type  
requires 24  
VDC pulse;  
36 Vrms hal-  
wave AC for reset. Has aux  
illiary low current con-  
tacts for remote indica-  
tor or control. 1 1/2" x 4" per  
counter. Unused w/PCB sock-  
ets. Bank of three, \$6.00  
four, \$8.00



VIBRATORS REMOVED f/equip.  
VB-1 & -7: 6 V. for PP-308,  
PE-97, -117, -237. \$3.95  
VB-12 (6.V.) or VB-13 (12V)  
for PE-120. \$2.95  
3H6690-16, f/PP-112, \$2.95  
Vibrators VS-3, G534, VB-8,  
VB-9 as available, \$2 ea.



BB-51 BAT-  
TERY 6 V.  
2.75 hours  
thru 30 L  
lead cells  
Dry charge  
1 1/2" x 7/8",  
3' oz. \$1.5  
BB-52, sam-  
as BB-51 except  
36 V. 3 A.  
thru 1200 ohms. \$1.00 ea.  
BB-208 BATTERY PACK, con-  
tains BB-51, 3/BB-52, \$3.

MINIMUM ORDER \$5.00

## PUSH-TO-TEST



PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1 1/4" X 2 1/4" D. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS: POWER,

PHASE B POWER, 28 VDC OR 24 VOLTS DC. \$1 EA, 3/\$2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING, COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, IN OVERFLOW, IN LOWER LEVEL, IN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, IGNITER, 40 C THERMO-STAT, AIRBORNE POWER SUPPLY, LOX THROT VALVE HEATER. Price: 75¢ ea or 4 for \$2.

ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE, 6/\$2

KORRY 136 PUSH-TO-TEST INDICATORS, SINGLE LAMPHOLDER WITH MINIATURE BAYONET BASE 1 1/4" X 2 1/4" D. INSCRIPTIONS: STANDBY, OVERLOAD; LOW; MALF. 65¢ 2/\$1.

KORRY 103 INDICATOR, PUSH-ON RED PLASTIC CAP; PLASTIC BODY. 5/8" SINGLE HOLE MOUNT. #5167, 50¢ EA. 3/\$1.

LAMP HOLDERS FOR 327 LAMPS 2 1/2" HOLE MTG. FLAT TOP LENSE 3/8 DEEP, WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), RED, AMBER, AND GREEN. SPECIFY. #6210-617-0934, 39¢ EA.

#327 LAMP FOR ABOVE, 39¢ NEON CYLINDRICAL TYPE LITE

ELDEMA V W/RES. 3/8 X 1 1/4" #2685 28V .04A, 1/4X7/8 BLOWN SLIP IN TYPE NEON 1/2X1-3/8" 125V. #3100 USED ALL ABOVE 3 FOR \$1.00

## MINIATURE LAMPS

STK #	TYPE	V. A.	BASE	BULB	EA	Per 10
#14	flashlight	2.47	.3	cand sc	G-3 1/2	.30
#382		1.08	min flanged	T-12	.35	2.50
#327	grain of wheat	28	0.04	A	T-12	.39
#480		.22	.55	min sc	G-6	.35
#511		.2	.25	min sc	G-6	.20
NE-2	switchboard	1/17	2F	slide base		1.00
NE-48/991	neon	115	.25	DC bay	T-4 1/2	1.50
NE-51	neon	115	.25	min bay	T-3 1/2	.40
2Z5882		18	.11	can sc	T-3 1/2	.20
4C5491KL1	switchboard	K1		slide base		1.00
6Z6806.6	TS-87	6-8	V	can bay	S-801	.35

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: \$6.00 EA. WRITE FOR 100 LOT PRICE.

## LINE FILTERS

RF LINE FILTERS, unused. \* \* \* \* \*

#513-3405, 2x3 amp 125 VAC 60 Hz; four solder terminals. 2x3x1, 2 lb. \$1.50

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2x1, 1 lb. \$1.25 ea.

#FA-380, 3 X 28 VDC 10 amps; screw terminals. Filtron mfg.; 3x3x1, 2 lbs. Unused, \$2.50

Sprague #JN17-2028A, 300 amps 100 VDC; lug terminals, 7x3 mtg plate. 7 lbs. \$12.95

#537-6615, 55 amps 30 VDC; two stud terminals. 2x5x2, 3 lbs sh wt. \$2.95

## 500 KHZ FILTER



COLLINS 500 KHZ FILTER ASSEMBLY consisting of nine adjustable coils and associated capacitors on 4x1x6 enclosed chassis. Uses MB style miniature connector. Units are checked, but may need alignment. Collins part #542-4777-004, \$5.00 Above, need repair, 2/\$4.00

## INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x2 1/2" dia. NEW. 123-177 mH, #NV243, \$1.50 600 mH, #404-3-2, \$1.50 TOROIDAL COILS, 5/16x1 dia 150 mH, #403-1-1, 85¢ ea.

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1 1/2 dia #403-4 \$1

MEISSNER PLUG-IN COILS, 3 in set including osc-grid, osc-plate, & buffer. # KHZ PRICE 3C2500-51 8040-2410 \$1.50 3C2500-52 2395-2835 1.75 Standard 4-5-6 prong sockets required for each set.

NATIONAL NC-100 ASC CW OSC TUNING coil, 456 KHz, #3. \* \* \* \* \* \* \* \* \* \* \* \* BC-348Q RECEIVER IF COILS 1st IF 9A1952 #147 \$3.00 2nd IF 9A1953 #148 3.00

RUD TRANSMITTING PLUG-IN COILS on 5-pin ceramic base #3C804 40 meters \$1.50

## COLLINS FILTER

COLLINS MECHANICAL FILTERS Used, reparable @ \$6 each: #526-9039-00 F250-A67 #526-9130-00 F250-ZA #526-9311-00 F300-25 #526-9312-00 F300-24

Used, reparable @ \$6 each: #526-9309-00 F455-Q2 #526-9310-00 F455-Q2

#526-8088-00, 21.605 Mhz; (5895-980-9828) NEW \$20. #526-9369-00, F64-Z7; (5915-724-6633) NEW \$22. #526-9089-00, F455-J31; NEW \$40.

MOTOROLA MECHANICAL FILTER on assemblies; F-307 type:

438 KHz \$3.00; Assembly with 450 & 480 KHz, \$6.95

TERMINAL LUGS, insulated for 22-18 wire. Specify ring or spade tongue style. 15/\$1.00 100/\$4. 1K/\$25.

AVIKRIMP® quick connect; #AA8140 or MS136 (26-24) 12/\$1.00 100/\$7. 1K/\$35.

Brown 1" dia x 1" high knob for 1" shft. #KBN025, 2/25¢

## HORN

SIMPLEX HORN, 6 VAC 2.5 AMP 60 Hz. MAKES LOUD PENETRATING NOISE; SCREWDRIVER VOLUME ADJUST. HEAVY STEEL CONSTRUCTION. DESIGNED FOR PARTIAL RECESS MOUNT. FRONT ENCLOSURE 4x4x1 1/2" DEPTH REQUIRED BEHIND: 1 1/2". #624-427. \$5.95

SPRAGUE #JN14-1551A 3 X 50 AMP 440 VAC 60 Hz LINE FILTER, 11x2 1/2x2 1/2, 18 lbs sh. NEW, \$18.95 GENISCO GF-1901-75D 75 AMP 250 VAC/600 VDC FILTER, knock-outs for hook-up; long style 2 1/4x4x4, 23 lbs. NEW \$14.

## FLUTED KNOBS



HEAVY DUTY SPIN KNOB, 2 1/2" dia; 1" H spin handle. Brass insert f 1/4" shft \$3.

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, \$1.50

#9682 KNOB, 2 1/2" across flats; 3" dia. skirt. F/ 1/4" dia. shaft, \$1.25

\* \* \* \* \*

7 1/2" dia. WHEEL-TYPE CONTROL, fits 3/4" dia. shaft. 2 lbs. W/pointer \$4.95 Without, \$3.95

A HEWLETT-PACKARD knob from test equipment, 1-3/8" dia skirt, 1" high; brass insert for 1" shaft. \$1.00

1-5/8" dia. FLUTED KNOB W/2" SKIRT, FITS 1" SHAFT. URC# S-649, \$1.25 NEW

1 1/2" dia. FLUTED KNOB WITH SKIRT AND POINTER. BRASS INSERT FOR 1" SHAFT. KNBN005 \$2.25

MODERN GREY KNOB w/fine-ribbed side. 1 1/2" dia X 9/16" H. F/ 1/4" dia sh. #7577 NEW \$1.00

1 1/2" dia fluted knob with 2" dia skirt; brass insert f 1/4" shft. #0728 NEW \$1.00

1" dia. FLUTED KNOB WITH BRASS INSERT FOR 1" SHAFT. KNBN008 \$2.25

ALL THE ABOVE KNOBS ARE OF SET SCREW TYPE.

## SPIN KNOBS

2" dia. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT. KNBN009 \$0.79

2 1/2" dia. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW \$2.00

MAKE ANY FLAT KNOB A SPIN 1 1/2" ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER #2Z5816-3 \$1.00

1-5/8" dia. METAL SPIN KNOB F/ 1/4" SHAFT. URC#KN02, \$1.50

1 1/2" dia. FLUTED KNOB W/ 1/4" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, \$.50

1-5/8" dia. FLUTED KNOB W/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN05, \$.75

Brown 1" dia x 1" high knob for 1" shft. #KBN025, 2/25¢

HAMMARLUND DIAL #31227-3 2 1/2" silver skirt marked 10 to 0; 1-5/8" dia knurled knob. #E8821, NEW, \$1.50

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2 1/2" \$3 #E5570 1 1/2" \$2

HALLICRAFTERS with big 1 1/2" dia; arrow & grip bar. #HS1014 new \$1.50

BAR TYPE KNOB

BAR TYPE BAKELITE KNOB FOR 1/2" SHAFT. 1 1/4" X 1 1/4" X 5/8". SET SCREW TYPE. KNBN012 \$2.25

BAR TYPE BAKELITE KNOB FOR 1/2" SHAFT WHICH MUST BE TAPE FOR SET SCREW. 1 1/4" X 1 1/4" X 5/8". KNBN013 \$2.25

RECTANGULAR BAR TYPE BAKELITE KNOB 1 1/4" X 1 1/4" X 5/8". WITH BRASS INSERT FOR 1/2" SHAFT. SET SCREW TYPE. KNBN014 \$2.25

Pointer knob with brass insert for 1" shaft; 1 1/4" X 1 1/4" X 5/8". #KNBN026 25¢ ea

Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1 1/4" X 5/8" X 1 1/4". KNBN016 4/\$1.00

Rounded bar style knob, 1-1/8" long x 1" across x 1 1/16". H. Brass insert f 1/4" dia sh. #KNART13 3/\$1.

1 1/2" dia. METAL KNOB FOR 1/4" SHAFT WITH TWO SET SCREWS. FINGER GRIP KNOB FOR HEAVY SWITCHING APPLICATIONS. KNBN018 2/\$.35

1-5/8" dia plastic knob with 2 1/2" dia aluminum skirt calibrated 0 to 10. Brass insert for 1" dia shaft. #9414 NEW \$.50 ea

1" dia plastic knob with 1 1/2" dia skirt calibrated alphabetically A-B...Y-Z. Aluminum skirt; f 1/4" shaft. #5312 NEW \$.50 ea

3/4" RIBBED KNOB 7/8" DEEP 1" SKIRT F/ 1/4" SHAFT DULL BLK. KNBN7820 35¢

5/8" X 3/4" SAME AS ABOVE BRIGHT BLK. KNBN261 20¢

1" dia. x 1 1/16" high knob, Ribbed style; Insert recessed 1/4" from base for flush fit. KNBN279, 30¢ ea.

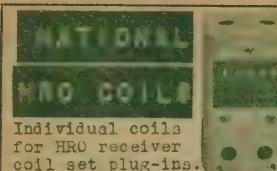
1" KNOB MARKED "INCREASED OUTPUT". 1" HOLE WITH SET SCREW. 1/2" THICK, METAL. KNBN023 \$.25

2" TUNING KNOB black w/chrome-finish trim. Metal insert f 1/4" d shft. #ROB-C/B \$1.25

RECTIFIER CAPACITOR ASSY WITH TWO 950 MFD 75 VDC (90V SURGE) COMPUTER GRADE CAPACITORS, TWO 50 MFD 75 VDC CAPS, AND FIVE 200 V 2 AMP DIODES. USE AS BASE FOR SMALL POWER SUPPLY. REMOVED FROM EQUIP-EXCELLENT, \$2.95

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1 1/2-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS

5-1/8" X 6" TO 7" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-069A/ARA, UNUSED, \$2.50



Individual coils for HRO receiver coil set plug-ins. Unused. \$2.50 ea; 4/\$8.00

KHz  
50-100: E112, E113/B143,  
E114/B144

100-200: E109/B139, B140

175-400: B112, B113

900-2000: B120

2-4 Mhz: B123

4-7 " : B127, B128, B129

7-14 " : B130, B131,

14-30 Mhz: B130, B137

**EC-610 XMITTER PLUG-IN TUNING UNITS**

4 units. \$4.00

# MHz Price

C-389A 4.5-5.7 NVL \$4.00

C-389C " " WVL 6.00

C-447 8.0-11 NVL 4.00

C-447B " " WVL 6.00

TU-47 (2.0-2.5 Mhz), TU-48

(2.5-3.2), TU-49 (3.2-4.0)

TU-50 (4-5), .37.50 each

TU-52 (6.35-8.0 Mhz) \$7.50

TU-54 (12-18 Mhz), \$12.00

VACUUM CAPACITOR by Jennings with connectors. Unused. 3.0mmf 15kv "Y" \$2.75

Jennings or equal mfg. used.

12mmf 20kv "VC" \$10.00

50mmf 20 KV "VC" \$12.00

## TRAVELING WAVE TUBE



EMI 7640 TWT, similar to Hughes 313H; 2.0-4.0 Ghz, 1 KW output, 30 db. 16x2x5<sup>1</sup>/<sub>2</sub>; 20 lbs. sh. Sold as an experimenter's item only; not guaranteed. \$17.50

ITT D-2013 CW TWT, 5 Watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12x1<sup>1</sup>/<sub>2</sub> dia. 3 lbs. sh. Unused. \$45.00

RCA 4012/A1157 TWT, 2.0-4.0 Ghz, 36 db min., 20 MW min. 15<sup>1</sup>/<sub>2</sub>" 1 x 3<sup>1</sup>/<sub>2</sub>" h x 1<sup>1</sup>/<sub>2</sub>" w. 4 lbs. sh. Unused. \$40.00

VARIABLE CAPACITORS, removed f/ T-195/GRC transmitter. #C-222/T-195, 25-485 pf one sec.; 23-437 pf of the other. 0.03" air gap. With gears 1<sup>1</sup>/<sub>2</sub>" dia. and 5/8" d. 4x3x4<sup>1</sup>/<sub>2</sub> overall. \$4.95

#C-221/T-195, 13.5-77.8 pf one section; 17-99.5 pf of the other. 0.094" air gap. 4<sup>1</sup>/<sub>2</sub>" dia. shaft. 5x1x3<sup>1</sup>/<sub>2</sub>, overall, 2 lbs sh. \$3.95

20-400 PF 0.02" gap. Ceramic insulation, silver plate. 5/8x4" dia shaft. 4x1-5/8 x1<sup>1</sup>/<sub>2</sub>. #C-1003/T-195, \$4.95

TCS VARIABLE CAPACITOR 2 SEC. 10-360 MMF, ONE SEC. 10-360 MMF, 3 BAND CALIBRATED DIAL 4" 1.5 TO 12 MHZ SIZE: 7x3<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub>. WT: 10 LBS. #7881 \$3.95 USED

SINGLE SECTION 11-67 pf .05" spacing. Has three front mount spacers for #6 screws Shaft 3/8x4" dia; o/a 3<sup>1</sup>/<sub>2</sub>x1-7/8x2<sup>1</sup>/<sub>2</sub>. #3D9087VB3 \$3.95 RBF-3-14A164, 10-40mmf gap 0.04". 2KV. 3<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub>x2 \$2.95

HAMMARLUND VAR. CAPACITOR 20-90 pf 0.05" spacing. Silver-plated, 0.04" thick, plates. Right angle worm and split gear drive. Shaft 1<sup>1</sup>/<sub>2" x 1<sup>1</sup>/<sub>2</sub>" dia. 4<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub> #446-6571 \$9.95</sub>

FREQUENCY METER VARIABLE CAPACITOR W/ VERNIER TUNING 11.5-160MMF. 3x3<sup>1</sup>/<sub>2</sub>x5<sup>1</sup>/<sub>2</sub>LBS. #BC-221 OR EQUAL NEW \$8

CARDWELL MR-260-ED

DUAL 4-30 MMF 1000 VDC 1<sup>1</sup>/<sub>2</sub>x2, SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 430/IM REM \$2.95

DUAL 4-20 MMF 2000 VDC 1<sup>1</sup>/<sub>2</sub>x2, SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 525/2M REM \$3.95

DUAL 4-50 MMF 1000 VDC 1<sup>1</sup>/<sub>2</sub>x3 SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 450/IM REM \$2.95

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16" STK#3D9036V

SIZE: 4<sup>1</sup>/<sub>2</sub>x2x2<sup>1</sup>/<sub>2</sub>; 1 LB. \$1.50

12-365 PF SINGLE SECTION, gear reduction tuning. 1x<sup>1</sup>/<sub>2</sub> shaft; o/a 3<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub>. #3D9378VB3, unused, \$4.50

DUAL 6-22 MMF 1500 VDC 1x1<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub> SHAFT 3/16x2<sup>1</sup>/<sub>2</sub> TELERADIO 622/15M NEW \$1.95

VARIABLE CAPACITORS removed f/unused TU-10 tuning units. 0.09" air gaps.

#P-7761569, 14-62 pf, 1x<sup>1</sup>/<sub>2</sub>" dia shaft. 21x2<sup>1</sup>/<sub>2</sub>x4<sup>1</sup>/<sub>2</sub>, \$3.95

#T-7660443-8, 8-26 pf, 5/8 x1<sup>1</sup>/<sub>2</sub>" dia shaft. Overall 11x2<sup>1</sup>/<sub>2</sub>x3, 2 lbs. \$3.95

1-gang, 15-385 pf with 1<sup>1</sup>/<sub>2</sub>" long shaft; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, #1TH-365 \$2.95

JOHNSON "M" SERIES, 3/16" dia slotted shafts; o/a 1<sup>1</sup>/<sub>2</sub>x5<sup>1</sup>/<sub>2</sub>x5/8. Used: #160-110/20M1L, 2.7-18.6 pf; 21 plates, \$1.10 #160-130/30MS, 3 to 32 pf; 28 plates, \$1.25

THREE GANG, 15-85 pf/gang 0.03" gap; 3<sup>1</sup>/<sub>2</sub>x1-5/8x4<sup>1</sup>/<sub>2</sub>. #074-049 unused \$4.95

#4B8033C; 10-106 pf, 0.02" air gap; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, shaft 1x<sup>1</sup>/<sub>2</sub>" dia. Unused, \$1.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/ VARIABLE CAP., COILS, TUBE SOCKETS, OSC. SEC.P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150 USED \$3.95/N \$5.95

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x2<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>" dia shaft; o/a 4x2-3/8x3<sup>1</sup>/<sub>2</sub>. #3330-313, unused, \$5.95

TANK TUNING CAPACITOR FROM MARK II; 1-GANG 0-563 PF. 0.03" AIR GAP: 3<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>, 1x<sup>1</sup>/<sub>2</sub> DIA SHFT. #76348-C, \$2.95

TUNING CAPACITOR FOR RT-176/PRC-10, 38 TO 54.9 MHZ: 5-33 PF / GANG, WITH 1<sup>1</sup>/<sub>2</sub>" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1<sup>1</sup>/<sub>2</sub>x1-5/8x4, USED, \$4.95

BROADBAND TUNER 14-50 MHZ 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is rotated. Various other components. 3<sup>1</sup>/<sub>2</sub>x2x3<sup>1</sup>/<sub>2</sub> #RT-45 \$1.95

## TRANS. CAPS.

DUAL 4-30 MMF 1000 VDC 1<sup>1</sup>/<sub>2</sub>x2, SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 430/IM REM \$2.95

DUAL 5-25 MMF 2000 VDC 1<sup>1</sup>/<sub>2</sub>x2, SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 525/2M REM \$3.95

DUAL 4-20 MMF 2000 VDC 1<sup>1</sup>/<sub>2</sub>x3 SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 420/2M REM \$3.95

DUAL 4-50 MMF 1000 VDC 1<sup>1</sup>/<sub>2</sub>x3 SHAFT 2<sup>1</sup>/<sub>2</sub>" P/O BC-640 CARDWELL 450/IM REM \$2.95

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16" STK#3D9036V

SIZE: 4<sup>1</sup>/<sub>2</sub>x2x2<sup>1</sup>/<sub>2</sub>; 1 LB. \$1.50

12-365 PF SINGLE SECTION, gear reduction tuning. 1x<sup>1</sup>/<sub>2</sub> shaft; o/a 3<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub>. #3D9378VB3, unused, \$4.50

DUAL 6-22 MMF 1500 VDC 1x1<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub> SHAFT 3/16x2<sup>1</sup>/<sub>2</sub> TELERADIO 622/15M NEW \$1.95

VARIABLE CAPACITORS removed f/unused TU-10 tuning units. 0.09" air gaps.

#P-7761569, 14-62 pf, 1x<sup>1</sup>/<sub>2</sub>" dia shaft. 21x2<sup>1</sup>/<sub>2</sub>x4<sup>1</sup>/<sub>2</sub>, \$3.95

#T-7660443-8, 8-26 pf, 5/8 x1<sup>1</sup>/<sub>2</sub>" dia shaft. Overall 11x2<sup>1</sup>/<sub>2</sub>x3, 2 lbs. \$3.95

1-gang, 15-385 pf with 1<sup>1</sup>/<sub>2</sub>" long shaft; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, #1TH-365 \$2.95

JOHNSON "M" SERIES, 3/16" dia slotted shafts; o/a 1<sup>1</sup>/<sub>2</sub>x5<sup>1</sup>/<sub>2</sub>x5/8. Used: #160-110/20M1L, 2.7-18.6 pf; 21 plates, \$1.10 #160-130/30MS, 3 to 32 pf; 28 plates, \$1.25

THREE GANG, 15-85 pf/gang 0.03" gap; 3<sup>1</sup>/<sub>2</sub>x1-5/8x4<sup>1</sup>/<sub>2</sub>. #074-049 unused \$4.95

#4B8033C; 10-106 pf, 0.02" air gap; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, shaft 1x<sup>1</sup>/<sub>2</sub>" dia. Unused, \$1.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/ VARIABLE CAP., COILS, TUBE SOCKETS, OSC. SEC.P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150 USED \$3.95/N \$5.95

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x2<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>" dia shaft; o/a 4x2-3/8x3<sup>1</sup>/<sub>2</sub>. #3330-313, unused, \$5.95

TANK TUNING CAPACITOR FROM MARK II; 1-GANG 0-563 PF. 0.03" AIR GAP: 3<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>, 1x<sup>1</sup>/<sub>2</sub> DIA SHFT. #76348-C, \$2.95

TUNING CAPACITOR FOR RT-176/PRC-10, 38 TO 54.9 MHZ: 5-33 PF / GANG, WITH 1<sup>1</sup>/<sub>2</sub>" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1<sup>1</sup>/<sub>2</sub>x1-5/8x4, USED, \$4.95

BROADBAND TUNER 14-50 MHZ 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is rotated. Various other components. 3<sup>1</sup>/<sub>2</sub>x2x3<sup>1</sup>/<sub>2</sub> #RT-45 \$1.95

5-25 PF CAPACITOR, worm gear & ceramic insulated shaft and stators.

Rotor plates on common metal shaft; .03" gap. Rating made with two sections in series. May be modified into two 10-50 pf sections.

Gear shaft: 1<sup>1</sup>/<sub>2</sub>x1/8" dia. Other 5/8" x1<sup>1</sup>/<sub>2</sub>" dia. O/A 4<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>. Silver-plated. #710-4608 \$6.95

RECEIVING TYPE CAPACITORS FOR AM-FM-AUDIO-OSCILLATOR USE WITH SHAFTS.

#48842 DUAL 12-90 MMF & 15-140 MMF SIZE 1x1x<sup>1</sup>/<sub>2</sub> \$1.00

#66972 DUAL 9-50 MMF & 1-100 MMF, SIZE 1x1x<sup>1</sup>/<sub>2</sub> \$1.00

#330V020-H02 DUAL 10-90 & 14-140 MMF 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub> \$1.25

#074-050J-2, 8-20 pf, 2<sup>1</sup>/<sub>2</sub> shaft. \$1.25

Dual 5-15mmf, ceramic, w/fri-

ction gear to hold setting

0.04" spacing. 2<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>x7/8 in

1<sup>1</sup>/<sub>2</sub>in dia shaft. coil & gear

removeable. #358-3164 \$1.95

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16" STK#3D9036V

SIZE: 4<sup>1</sup>/<sub>2</sub>x2x2<sup>1</sup>/<sub>2</sub>; 1 LB. \$1.50

12-365 PF SINGLE SECTION, gear reduction tuning. 1x<sup>1</sup>/<sub>2</sub> shaft; o/a 3<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub>. #3D9378VB3, unused, \$4.50

DUAL 6-22 MMF 1500 VDC 1x1<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub> SHAFT 3/16x2<sup>1</sup>/<sub>2</sub> TELERADIO 622/15M NEW \$1.95

VARIABLE CAPACITORS removed f/unused TU-10 tuning units. 0.09" air gaps.

#P-7761569, 14-62 pf, 1x<sup>1</sup>/<sub>2</sub>" dia shaft. 21x2<sup>1</sup>/<sub>2</sub>x4<sup>1</sup>/<sub>2</sub>, \$3.95

#T-7660443-8, 8-26 pf, 5/8 x1<sup>1</sup>/<sub>2</sub>" dia shaft. Overall 11x2<sup>1</sup>/<sub>2</sub>x3, 2 lbs. \$3.95

1-gang, 15-385 pf with 1<sup>1</sup>/<sub>2</sub>" long shaft; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, #1TH-365 \$2.95

JOHNSON "M" SERIES, 3/16" dia slotted shafts; o/a 1<sup>1</sup>/<sub>2</sub>x5<sup>1</sup>/<sub>2</sub>x5/8. Used: #160-110/20M1L, 2.7-18.6 pf; 21 plates, \$1.10 #160-130/30MS, 3 to 32 pf; 28 plates, \$1.25

THREE GANG, 15-85 pf/gang 0.03" gap; 3<sup>1</sup>/<sub>2</sub>x1-5/8x4<sup>1</sup>/<sub>2</sub>. #074-049 unused \$4.95

#4B8033C; 10-106 pf, 0.02" air gap; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, shaft 1x<sup>1</sup>/<sub>2</sub>" dia. Unused, \$1.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/ VARIABLE CAP., COILS, TUBE SOCKETS, OSC. SEC.P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150 USED \$3.95/N \$5.95

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x2<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>" dia shaft; o/a 4x2-3/8x3<sup>1</sup>/<sub>2</sub>. #3330-313, unused, \$5.95

TANK TUNING CAPACITOR FROM MARK II; 1-GANG 0-563 PF. 0.03" AIR GAP: 3<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>, 1x<sup>1</sup>/<sub>2</sub> DIA SHFT. #76348-C, \$2.95

TUNING CAPACITOR FOR RT-176/PRC-10, 38 TO 54.9 MHZ: 5-33 PF / GANG, WITH 1<sup>1</sup>/<sub>2</sub>" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1<sup>1</sup>/<sub>2</sub>x1-5/8x4, USED, \$4.95

BROADBAND TUNER 14-50 MHZ 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is rotated. Various other components. 3<sup>1</sup>/<sub>2</sub>x2x3<sup>1</sup>/<sub>2</sub> #RT-45 \$1.95

5-25 PF CAPACITOR, worm gear & ceramic insulated shaft and stators.

Rotor plates on common metal shaft; .03" gap. Rating made with two sections in series. May be modified into two 10-50 pf sections.

Gear shaft: 1<sup>1</sup>/<sub>2</sub>x1/8" dia. Other 5/8" x1<sup>1</sup>/<sub>2</sub>" dia. O/A 4<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>. Silver-plated. #710-4608 \$6.95

RECEIVING TYPE CAPACITORS FOR AM-FM-AUDIO-OSCILLATOR USE WITH SHAFTS.

#48842 DUAL 12-90 MMF & 15-140 MMF SIZE 1x1x<sup>1</sup>/<sub>2</sub> \$1.00

#66972 DUAL 9-50 MMF & 1-100 MMF, SIZE 1x1x<sup>1</sup>/<sub>2</sub> \$1.00

#330V020-H02 DUAL 10-90 & 14-140 MMF 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub> \$1.25

#074-050J-2, 8-20 pf, 2<sup>1</sup>/<sub>2</sub> shaft. \$1.25

Dual 5-15mmf, ceramic, w/fri-

ction gear to hold setting

0.04" spacing. 2<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>x7/8 in

1<sup>1</sup>/<sub>2</sub>in dia shaft. coil & gear

removeable. #358-3164 \$1.95

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16" STK#3D9036V

SIZE: 4<sup>1</sup>/<sub>2</sub>x2x2<sup>1</sup>/<sub>2</sub>; 1 LB. \$1.50

12-365 PF SINGLE SECTION, gear reduction tuning. 1x<sup>1</sup>/<sub>2</sub> shaft; o/a 3<sup>1</sup>/<sub>2</sub>x3<sup>1</sup>/<sub>2</sub>. #3D9378VB3, unused, \$4.50

DUAL 6-22 MMF 1500 VDC 1x1<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub> SHAFT 3/16x2<sup>1</sup>/<sub>2</sub> TELERADIO 622/15M NEW \$1.95

VARIABLE CAPACITORS removed f/unused TU-10 tuning units. 0.09" air gaps.

#P-7761569, 14-62 pf, 1x<sup>1</sup>/<sub>2</sub>" dia shaft. 21x2<sup>1</sup>/<sub>2</sub>x4<sup>1</sup>/<sub>2</sub>, \$3.95

#T-7660443-8, 8-26 pf, 5/8 x1<sup>1</sup>/<sub>2</sub>" dia shaft. Overall 11x2<sup>1</sup>/<sub>2</sub>x3, 2 lbs. \$3.95

1-gang, 15-385 pf with 1<sup>1</sup>/<sub>2</sub>" long shaft; 1<sup>1</sup>/<sub>2</sub>x1x1<sup>1</sup>/<sub>2</sub>, #1TH-365 \$2.95</

## INSULATORS



**STAND-OFF, CROWS FOOT, 7"**  
Hx1<sup>1</sup>/<sub>2</sub> D.CAST BASE, 2<sup>1</sup>/<sub>2</sub> CTRS.  
TOP CAST W/3/16"-20 SCREW  
#5970-405-8992 \$4.00  
SIMILAR, ABOVE 3" 3.00

**FEED - THRU INSULATOR (FIG2**  
1<sup>1</sup>/<sub>2</sub>" HOLE 7/8" DIA. W/NECK  
3" LONG 30¢  
6" LONG 50¢ 8" LONG 60¢  
STOCK NO. 1014-(LENGTH)  
SAME AS ABOVE OVAL TWIN-

**PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.**  
#P-4H-.75D, 8-24 THRD, \$.50  
#P-5H-.75D, 8-24 THRD, .65  
#P-6.75H-1D, 10-24 THR, .85

**BIRNABACK 4238 TRANSMITTER LEAD-IN insulator, threaded rod w/two 2x1 cones; adjustable length between cones. 15" L, 2 lbs. \$1.95**

**STK.#3G584 IN-84 FEED-THRU CONICAL SHAPE, 5" LG, 0/A; 2 CONICAL SHAPED 1-1/8 LG. X1<sup>1</sup>/<sub>2</sub> DIA. AT BOTTOM, 1" AT TOP, 1/4" DIA. ROD WITH 1/4 20 THREAD WITH NUTS/WASHERS 1LB. 25¢ EA. 5 FOR \$1.00**

**GLASS-BONDED MICALEX STRIPS 10" Lx1" Wx5/8" Th. Five holes 1/2" dia. #3G110-160, \$1.50  
GE #K7102768F1, same as above, 7-3/8" Lx3<sup>1</sup>/<sub>2</sub>" Wx3/8" Th. Ten holes, \$3.00 ea.**

**INSULATOR THREADED BRASS EACH END FOR 1/4" SCREW. #CLASS 16U-2<sup>1</sup>/<sub>2</sub>x1" \$2. " 16U-3<sup>1</sup>/<sub>2</sub>x2" \$3.**

**INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3" HX1<sup>1</sup>/<sub>2</sub>" \$1.**

**SPREADER INSULATORS No. SIZE HOLE PRICE  
IN-88 - 2<sup>1</sup>/<sub>2</sub>x<sup>1</sup>/<sub>2</sub> 1/16" 25¢  
CSJ-61192 4<sup>1</sup>/<sub>2</sub>x<sup>1</sup>/<sub>2</sub> 3/16 35¢**

**STRAIN INSULATOR BROWN 2<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>2</sub>" 1" HOLES EA END, OPPOSITE SIDES. #3G100 PRICES: 79¢ EA. 4 FOR \$3. Box of 200 \$125.00**

**ART-13 TRANSMITTER ANTENNA INSULATOR PANEL; WITH 3<sup>1</sup>/<sub>2</sub>x4 OBLONG INSULATOR WITH TWO SPRING-TYPE BINDING POSTS. ALSO A 1<sup>1</sup>/<sub>2</sub>x1 AND A 2<sup>1</sup>/<sub>2</sub>x<sup>1</sup>/<sub>2</sub> CONICAL INSULATORS WITH PUSH-TYPE BINDING POSTS. WT: 1 LB. COMPLETE ASSY. USED \$1.00**

**STAND-OFF INSULATOR H-1<sup>1</sup>/<sub>2</sub>, B-1<sup>1</sup>/<sub>2</sub>, A-1, 1/4" BOLT REQ. 1<sup>1</sup>/<sub>2</sub>" MTG HOLE SPP-1048 NO HARDWARE 3 FOR \$1.00**

## STAND-OFF'S

**STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.**  
HD-1  
D=DIAMETER  
H=HEIGHT  
M=MOUNT BASE  
H=HOLES! CENT-  
ER DISTANCES  
ST=SCREW TERM-  
INALS  
CT=CLAMP TERM-  
INALS

#B-H-3-DI.25-ST3, BROWN CERAMIC; M=2.25", TERM. CAP SIZE: 7/8x1<sup>1</sup>/<sub>2</sub>-5/8" DIA. SHPG. WT: 2 LBS. \$2.75  
#B-H-4-DI.25-ST2, WHITE; M=2.25". TERM CAP: 1<sup>1</sup>/<sub>2</sub>-5/8" DIA. 3 LBS. \$3.25  
#XV-H-5-DI-ST, WHITE; M=2.25" TERM CAP: 2<sup>1</sup>/<sub>2</sub>" DIA. \$3.00  
#W-H-5-DI.25-ST, WHITE; M=2.25". TERM CAP: 3<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>" DIA. 3 LBS. \$3.75  
#B-H-5-DI.25-CT, WHITE; M=2.25". TERM CAP: 1<sup>1</sup>/<sub>2</sub>-5/8" DIA. 3 LBS. \$4.00  
#BL-H-6-DI.25-ST2, BLACK PAINT ON BRASS; M=2.625" TERM CAP: 1<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>" DIA. SHPG. WT: 4 LBS. \$4.25  
#W-H-6-DI.75-NNT, WHITE; M=3.75". No TERM CAP; THREADED. 5 LBS. \$4.50  
#B-H-7-DI.25-ST, BROWN; M=2.25". TERM CAP: 5/8x1<sup>1</sup>/<sub>2</sub>-5/8" DIA. SHPG. WT: 3<sup>1</sup>/<sub>2</sub> LBS. \$4.75  
#W-H-8-DI.75-NNT, WHITE; M=3.75". No TERM CAP; THREADED. 6 LBS. \$5.25

## FLEXIBLE COUPLING

**CERAMIC FLEXIBLE COUPLING 1" dia x 1<sup>1</sup>/<sub>2</sub>" for 1" dia shaft. #COUN003-2, 45¢ ea  
#COUN008; 2-5/8"dia x 2", for 3/8" dia shft. 79¢ ea  
#COUN009; 2X2 CERAMIC COUPLING for 3/8" dia shaft. 69¢ ea  
#COUN010; 3<sup>1</sup>/<sub>2</sub>" dia x 1<sup>1</sup>/<sub>2</sub>", for 3/8" dia shft. \$1.25**

**AC LINE CORDS**  
3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; grey. #SK-3CG \$1.25  
#W14-3CG, as above but #14 wire; black. \$2.00 ea  
3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5<sup>1</sup>/<sub>2</sub>'. #HP-3CG \$1.50

**MORE --- DOLLAR DAZE**  
TOGGLE SWITCHES, SPST cut-offs, 5/\$1.00

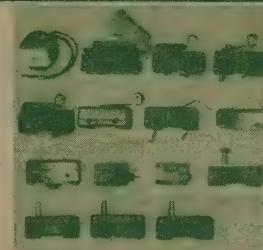
**PUSH SWITCHES, SPST norm-open, 5/\$1.00**

**SLIDE SWITCHES, 2PDT and SPDT, 5/\$1.00**

**SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76SB04, 4 sw. 3.75; 5/\$3.**

**SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24VDC SIZE: 12<sup>1</sup>/<sub>2</sub>x7<sup>1</sup>/<sub>2</sub>x2; WT: 7 LBS. URC#1524115 NEW \$3.95**

## MICRO SWITCHES



**SPEST MICROSWITCHES 1-7/8x5/8x1<sup>1</sup>/<sub>2</sub>, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c.**

**#WHBT349A-1 n.o. lever**

**#YZ-3RLTC n.o. lever 15A**

**#YZ-RS n.o. extended pin**

**#SW-186 n.o. ext-pin**

**#WZ-RS9 n.o. ext-pin**

**#2MC3-1A n.c. pin; 1-5/8x<sup>1</sup>/<sub>2</sub> size.**

**#V3-23 n.o or #V3-21 n.c. pin; 9/16x1x1-3/8 size.**

**MU-SWITCH Type D in split dye cast housing; 1<sup>1</sup>/<sub>2</sub>" tap conduit hub. 17/8.5 amp 125/250 VAC, new, 75¢**

**SPDT, one side n.o./other n.c.; 1-7/8x5/8x1<sup>1</sup>/<sub>2</sub>, 40¢ ea**

**#3Z-3R244T4, pin style**

**#WHBT349B-1, lever style**

**#BZ-2R, button w/mtg 50¢**

**#V3-1 9/16x1x3/8 size**

**#BZ2RW80-D5, 3" lever; 15 A 125/250/480 V 50¢**

**#BM-2RW80211-A2, 4" high squared hook lever; 22 A 125/250/480 VAC, NEW 60¢**

## TAP SWITCHES

**TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2<sup>1</sup>/<sub>2</sub>"d. Used.**

**#AHH-23-10; 2-deck 3-pos w/knob \$2.25**

**#AHH-230; 2-deck 3-pos and OFF.**

**Cont. turn; 15/10 A. No knob; 3/16" d shft. \$2.25**

**#AHH-33-10; 3-deck, 3-pos with knob, \$2.50**

**#AHH-63-10; 6-deck, 3-pos with knob, \$3.50**

**#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x1<sup>1</sup>/<sub>2</sub>x2, 2 lbs sh. Used w/knob \$2.50**

**OHMITE 312-8 TAP SWITCH, 8 taps rated 25 amps AC 300 volts, 150 V between taps. Shaft 5/8x1<sup>1</sup>/<sub>2</sub>" dia; o/a 2<sup>1</sup>/<sub>2</sub>x3" dia, 3 lbs. \$4.50**

**ES TAP SWITCH, 60 amp 500 VAC/250 DC 4-position 2-deck, 6 cont/deck. Pos 1 makes cont 2-3, P2 (1-2-4), P3 (1-5), P4 (1-2-6). 5<sup>1</sup>/<sub>2</sub>x6x4<sup>1</sup>/<sub>2</sub>, 10 lb. ES#125402A, unused \$16.95**

## PUSH SWITCHES



**DPST normally open, 1 amp 250 VAC; #PSW004 35¢**

**DPST interlock n.o., (3Z-9825/254), #PSW006 65¢**

**SPST pull switch, normally open, #PSW007 35¢**

**SPST normally closed case ground; #PSW008 35¢**

**SPST normally closed, Grayhill #4002 50¢**



**2-BUTTON momentary; red breaks, black makes. 3<sup>1</sup>/<sub>2</sub>x1-5/8x1-1/8; #RB-BM \$1.50**

**TANDEM 2-CIRCUIT PUSH SWITCHES, each momentary n.o./n.c.; 3-1/8x1-7/8x2<sup>1</sup>/<sub>2</sub>; GE#5749715-G2, \$2.50**

**2-CIRCUIT 2-BREAK 1-position mom.; 440 VAC 1.25A/250 VDC 0.625A. 1-7/8x1<sup>1</sup>/<sub>2</sub>x2; #296-6647, \$1.50**

**2-CIRCUIT BREAK/MAKE momentary; 2<sup>1</sup>/<sub>2</sub>x2x1<sup>1</sup>/<sub>2</sub>. #56733-3730, \$1.75**

## FOOT SWITCH

**DUAL FOOT PEDAL SWITCH, 20 amp norm. open. Depress pedal to make; release to break. With 7' 3-cond. heavy cord. 4x4<sup>1</sup>/<sub>2</sub> x1<sup>1</sup>/<sub>2</sub>, 4 lbs. #LR-FP, \$6.95**

**FIVE-PUSH SWITCH 2PST NORM. CL. IPST NORM. OP. IPDT. 5x3x1 #PSW5022 \$1.00**

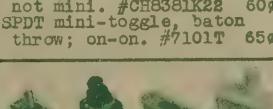


**MINIATURE SWITCHES, all new. Black: blk. White: wh.**

**DPDT on-on, blk. or wh button (a); C&K #6221, 65¢ SPDT on-off-on, wh. toggle (b); Alco #MLD106E, 75¢**

**DPDT on-on, blk. toggle (c) C&K #U21, 65¢ SPDT on-on, blk. rocker (c) JET #MR2-123, 65¢**

**SPDT on-on, wh. rocker (d); C&K #7101, 60¢ SPST red or wh. tog. (e), not mini. #CH8381K22 60¢ SPDT mini-toggle, baton throw; on-on. #7101T 65¢**



**DPST one side mom. (f) toggle; Alco #CST-023TA, 2/\$1 SPDT n.o./n.c., push button (g); Licon #76-2450, 2/\$1**

**DPDT on-on slide (h), 6/\$1. DPST sub-mini slide switch; Chicago EIA 50, 5/\$1. Interlock switch (i); 10 A. Cherry #E89-30A, 2/\$1. SPDT make before break and 2/SPST normally closed; single hole mount. Teletype #129598 (FSN #5930-259-6880), unused, \$1.50**

**2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG.**

**SWITCHCRAFT 513148 NEW \$1**

## SWITCHES



**AIRCRAFT TYPE SWITCH TWO HOLE MOUNTING FIG. #1**

**CIR CON RATING NO PR**

**SPST NEW 5/125 B-15 .65**

**ABOVE MOMENTARY N/CLOSED**

**SPDT rem 5/125 B-7A .50**

**(above center-off)**

**SPST NE 15, 125 B-18 .30**

**SPDT REM 5/125 B-7A .55**

**(CENTER OFF, MOM ONE SIDE)**

## TOGGLE SWITCHES

**TOGGLE SWITCHES SINGLE HOLE MOUNTINGS: CONDITION NEW & "REM" REMOVED FROM EQUIPMENT, ALL GUARANTEED.**

**CIR CON RATING NO PR**

**SPST PEM 8/125 887K2 .35**

**(ABOVE SWITCH MOMENTARY)**

**SPST REM 6/125 SW-1C5N .30**

**SPDT REM 8/125 ST-130 .25**

**("ON" BOTH SIDES)**

**DPDT REM 3/125 7463954 .25**

**DPST rem 10/125 ST-52X .40**

**DPDT REM 5/125 SW3125 .30**

**3PST REM 5/125 ST-22R .35**

**4PST REM 15/125 7661K5 .00**

**TEN PUSH SWITCH STRIP EACH D.P.O.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE. NEW 12x4x3/4; NO. 4C5231 \$2.25**

**ROCKER SWITCHES**

**0319 SPST, 39¢ 3 FOR \$1.00**

**0348 DPDT, 59¢ 2 FOR \$1.00**

**0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR \$1.20**

**0347 DPDT MOMENTARY BOTH SIDES. 80¢EA. 2 FOR \$1.50**

**PUSH BUTTON SELECTOR**

**WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5,6,7**

**MAKE 2,3,4 RESPECTIVELY W/ COMMON. RED BUTTON RELEASEE**

**ALL. RATED @ 120/240VAC 8A**

**SIZE: 4<sup>1</sup>/<sub>2</sub>x1<sup>1</sup>/<sub>2</sub>x2<sup>1</sup>/<sub>2</sub>; WT: 2 LBS. GE#ASP8128-417 UNUSED \$75**

## LEVER SWITCHES

**4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM. # 1155 NEW \$2.00**

**TV-2 tube test Pl lever sw; make 2-break 2. Removed \$2.**

**2PDT ONE SIDE, OTHER 2/MAKE, P/O EE-2, USED \$1.00**

**8PDT & 4MAKE MOM. ONE SIDE OTHER SIDE ONE BREAK HOLD. CENTER OFF. SW-1323 USED \$1.**

**4PST EA. SIDE NORM. OPEN & HOLD, CTR.OFF3Z9818-9.1 N\$2.**

**2PDT ea. side of switch, no center-off. SE#649-31 \$2**

**SPDT make before break and 2/SPST normally closed; single hole mount. Teletype #129598 (FSN #5930-259-6880), unused, \$1.50**

**2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG.**

**SWITCHCRAFT 513148 NEW \$1**

## EQUIPMENT BLOWERS

.18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8" dia X 5 $\frac{1}{2}$ " depth. Includes eight single TO-3 heat sinks; 8 lbs sh. #B401/USM, used, \$16.95

TRC-29 Emitter BLOWER, 200 CFM, 115 VAC 60 Hz 1.2 amps @ 3300 RPM. 4-5/8" dia inlet; outlet 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ . Motor mount. With 10 mfd capacitor. Overall: 8x9x8, 12 lbs. Used \$14.95

TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 RPM). 4" dia intake; 2 $\frac{1}{2}$ x5 out. Outlet mtg 4" dia. O/A 7x7x7 $\frac{1}{2}$ , 10 lb. Torrington #A13980, unused \$18.95

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 180 CFM. Intake 3" dia, outlet 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ . O/A 8x11x8 $\frac{1}{2}$ , 14 lbs sh wt. EAD#B747M1-C, used, \$12.95

FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90°, but can be modified as shown in picture. Inlets 2 $\frac{1}{2}$ " dia. Overall 7 $\frac{1}{2}$ x6x5 $\frac{1}{2}$ , 12 lbs sh. Fasco type 21, #127S217, unused, \$10.00

ORDANANCE BLOWER 6 VOLTS DC, approx 150 CFM with turbine-type impeller. Intake 3", outlet 1" dia. Overall size: 6 $\frac{1}{2}$ x6 $\frac{1}{2}$ x4, 7 lbs sh wt. ORD#G486392, unused, \$7.95

115 VAC BLOWER, 1 $\frac{1}{2}$ " dia hose to 115 V solenoid reverses intake/outtake. Possible use with air brush. 6" x 8" dia, 12 lbs; Used. #GM-CPE, \$15. Less solenoid \$12.

5-BLADE 7" DIA FAN in 7 $\frac{1}{2}$ " dia X 6" h housing; 115 VAC 60 Hz. Can probably be adapted to duct fan. With 2 mfd capacitor; 9 lbs sh. #14-20/5B-DF, used, \$14.95

4-BLADE 6" DIA FAN in conical 7 $\frac{1}{2}$ " to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, \$9.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal case-ment-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, \$4.50

## HEATSINKS

9x4 $\frac{1}{2}$  1/8" ALUMINUM. DRILLED FOR 3/10-3 #3T941 UNUSED \$2.75 12 $\frac{1}{2}$ x5x1 $\frac{1}{2}$  aluminum w/3 or 4 TO-3 transistors. #HS-HSB used \$3.95

BLACK TAB MTG HEATSINK WITH 2/2N3055 OR EQUAL W/HDR INSULATOR, RESISTORS 4 $\frac{1}{2}$ x1 1/8x2 $\frac{1}{2}$  (4 7/8) TOTAL #HSW/IT REMOVED \$2.00

#HSW/IT SIMILAR TO ABOVE BUT WITH ONE TRANS. SIZE: 3-7/8x2-7/8x1-1/8. \$85 EA. 4 FOR \$3.

#THS, SIMILAR TO ABOVE; NO TRANS., 2 FOR \$1.

#DHS, SAME AS ABOVE, ANODIZED DRILLED FOR DU-4 DIODES. 3-7/8x2x1-1/8, 2 FOR \$1.00

DUAL TO-36 HEATSINK, 3x2 $\frac{1}{2}$ x1-3/8; flange mounting. #HST036, \$.75 each or 3 for \$1.00

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), \$2.

#2D734 HEATSINK, 7x2 $\frac{1}{2}$ x2 $\frac{1}{2}$ ; drilled with two 25/32" dia. holes. 3 lbs sh. Unused, \$3.50

SERIES 680 HEATSINKS, 1 $\frac{1}{2}$ " sq. NEW #1.0G-5-5, 1" high with 0.33" dia. hole for rectifier, 85¢ ea. #.75A-16-1, 0.75" high for TO-3 transistor, 75¢ ea.

## COMPACT AXIAL FANS

AXIAL FANS, 4 $\frac{1}{2}$ " square X 1 $\frac{1}{2}$ " thick; 115 VAC 60 Hz. Removed from equipment; guaranteed. Rotron MUFFIN® or similar; 3-blade 14W \$11. 5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, \$12. IMO BOXER FAN®, 220/240 VAC 50/60 Hz 0.1 amp; 5-blade in metal housing, \$11.95 ROTRON BT2A-1 BISCUIT® fan, right angle 1" x 2" out-take; 115 VAC 50/60 Hz 16 watts, \$12.95

## SPRITE FAN

ROTRON MODEL SUEA5 SMALL-3-1/8x3-1/8x1-5/8 size. Seven blade plastic fan in die cast housing. 115 VAC 60 Hz. 2 lbs. sh. NEW, \$12.95

## FIVE BLADE COOLING FAN

4-5/8" dia. rotationl no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, \$4.95

OPEN FRAME COOLING FANS, 115 VAC 60 Hz; metal or nylon blades. Removed from equipment.

#NCR-50, 5" blade rotation, \$3.50

## HEATSINK ASSEMBLIES

LARGE HEATSINK BANK consisting of five 12 $\frac{1}{2}$ " L x 5 $\frac{1}{2}$ " W x 1" Th heatsinks and 19 transistors similar to 2N3055's. Assembly originally part of 4 V. 75 amp power supply. Use as-is or dismantle for parts. O/A 13 $\frac{1}{2}$ x5x1, 12 lbs sh. Removed f/equip. #HSB4-75, \$16.95

#75-4-2400 SERIES 400 HEATSINK

with two 1 $\frac{1}{2}$ " dia. power rectifiers at least 100 PIV 100 amp each. Size: 5x5x6 w/1-5/8" fins. 8 lbs. sh. Removed, \$15.

#75-4-400S SERIES 400 HEATSINK

with 7/8" dia. SCR at least 100 PIV 100 amps. Size: 5x5x4, 4 lbs. sh. Removed, \$5.95

SCR CROWBAR CIRCUIT, consists of 40RC55 SCR rated I<sub>t</sub> 63 A 50 V max. mounted with thermal switch and two resistors. Potted assembly has trigger voltage adjust 4-7 V. Use with 5 V supplies for overvoltage protection or modify for other uses. #CRBR-40, NEW, \$4.95

## MILITARY TEST SETS

AN/TRM-3 SWEEP GEN. 15-400 Mhz AM-FM, \$295.

AN/URM-23 SUMMATION BRIDGE with attenuator kit, 1 to 4 Ghz 5 mw-5 watts, \$100.00

AN/URM-76 TEST METER for AN/ARC-34, \$50.00

FR-4/URM-79 FREQ. METER, 100 KHz-20 Mhz, \$75

FR-5/URM-80 FREQ. METER, 10-100 Mhz, \$75.00

FR-6/URM-81 FREQ. METER, 100-500 Mhz, \$85.00

FR-38/USM-26 COUNTER, like HF-524B, \$125.00

SG-299 SOURCE WAVE GENERATOR, 1 Hz-1 Mhz \$45

FR-114/TSM-16 FREQUENCY METER w/6-NIXIE tube readout, 20 Hz-1 Mhz; 70 lbs sh. \$65.00

TV-7D/U TUBE CHECKER, used-checked, \$85.00

TV-10/U TUBE CHECKER, used-checked, \$80.00

SG-321 LOW FREQUENCY FUNCTION GENERATOR, .008

to 1200 Hz square, triangular, or sine wave in five multiplier ranges. Max. output: 33 p-p.

Synch pulse 22.5 V peak neg., less than 5 usec duration. Internal impedance: 40 ohms. Output balanced or single-ended; 19 tubes. Requires 115/230 VAC 50-400

Hz. 12x18 $\frac{1}{2}$ x14 $\frac{1}{2}$ , 65 lbs sh. Unused, \$65.00

## HEWLETT-PACKARD

HEWLETT-PACKARD TEST METERS, used-complete; add \$30 for "checked" price. Manuals, \$7.50 each when purchased with a meter.

\* \* \* \* \*

HP-400D VTVM, 0.0001 to 300 V-rms in twelve ranges; -50 to +60 db. 10 Hz-4 Mhz response. 23 lbs sh. Reparable, \$65.00

HP-400DR, same as above, except rackmount; 30 lbs. \$60.

HP-400HR, similar to "DR" but twice as accurate plus a 5" mirrored scale; 30 lbs. \$75.



HP-412AR DC VOLTMETER, 1 mv to 1000 VDC in 13 ranges. Also 1 microamp to 1 amp and 1 ohm to 100 megohms. 1% design accuracy. Has mirrored scale; rackmount. 25 lbs sh. \$100.00

HP-413AR DC NULL VOLTMETER, has thirteen zero-centered ranges from 1 mv to 1000 VDC plus expanded scale. Rackmount; 18 lbs. \$75.

HP-425AR DC MICROVOLT-AMMETER, 1 uv to 1 V and 1 p-amp to 3 ma; 28 lbs. Checked, \$160.



HP-430C MICROWAVE POWER METER designed for frequencies up to 40 Ghz and as low as 10 Mhz when used with proper thermister mount. Power readings from 0.1 to 10 MW; -20 to +10 db. See 4/77 Ham Radio for amateur usage. 21 lbs sh. Used, no thermister mt., \$45.00

## FLUKE 803D

FLUKE 803D AC-DC DIFFERENTIAL VOLTMETER, 0.1 to 500 volts AC-DC. Designed accuracy: ±0.2% (AC), ±0.05% (DC). AC response 20 Hz to 10 Khz. Requires 115 VAC 60 Hz. 12 $\frac{1}{2}$ x9 $\frac{1}{2}$ x16, 35 lbs sh wt. Used, reparable, \$59.50

HEWLETT-PACKARD 650A TEST OSCILLATOR for 10 Hz to 10 Mhz in six ranges.

Output 30 mv to 30 volts;

600 ohm impedance. Out-

put attenuator 0-50 db in

10 db steps, flat ±1 db

throughout range. 10 $\frac{1}{2}$ x19x15,

48 lbs sh. Used, reparable, \$95.00; Cabinet for 650A, add \$10. Manual, \$8.50 w/purchase.

COMMERCIAL TEST EQUIPMENT, used-reparable: AD-YU 206A Microwave Phase and Time Detector 1100-6000 Mhz with adapters and book, \$350. BOONTON 202J AM-FM GENERATOR, 195-270 M \$295 H-P 202A Function Generator, \$65.00 H-P 102A Pulse Generator, \$50.00 H-P 310A Wave Analyzer, \$350.00 H-P 431B Power Meter w/o thermister, \$110.00 H-P 608ER AM Generator, 10-480 Mhz, \$695.00 H-P 740A DC Standard Differential VM, \$350. GENERAL RADIO 544B Megohm Bridge, \$99.50 CR-716B Capacitance Bridge to 1.1 uf, \$100. CR-740B Capacitance Test Bridge, \$85.00 CR-1021 Signal Generator, 250-920 Mhz, \$175. CR-1652A Resistance Limit Bridge, \$115.00 MEASUREMENTS 65B Generator .075-30 Mhz, \$99. NORTH ATLANTIC VM301 Phase Angle Meter, \$150 PHAZOR 100A Null Meter, \$40.00 TEKTRONIX 105 Square-Wave Generator, \$99.95

H-P 431B Power Meter w/o thermister, \$110.00 H-P 608ER AM Generator, 10-480 Mhz, \$695.00 H-P 740A DC Standard Differential VM, \$350. GENERAL RADIO 544B Megohm Bridge, \$99.50 CR-716B Capacitance Bridge to 1.1 uf, \$100. CR-740B Capacitance Test Bridge, \$85.00 CR-1021 Signal Generator, 250-920 Mhz, \$175. CR-1652A Resistance Limit Bridge, \$115.00 MEASUREMENTS 65B Generator .075-30 Mhz, \$99. NORTH ATLANTIC VM301 Phase Angle Meter, \$150 PHAZOR 100A Null Meter, \$40.00 TEKTRONIX 105 Square-Wave Generator, \$99.95

2400-3400 MHZ WAVEMETER

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-23 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x6x3, 15 lbs sh. Used, complete, \$39.95 Less accessories, \$29.95

## SIGNAL GENERATORS

HEWLETT-PACKARD 606A, 50 KHz to 50 Mhz AM in six bands. Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. Features constant output and modulation and low distortion.

10x19x13 $\frac{1}{2}$ , 50 lbs sh. Used, checked, \$795.00  
TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12x17 $\frac{1}{2}$ x13 $\frac{1}{2}$ , 70 lbs sh. Used, repairable, \$175.00

TS-419/URM-64, 900-2100 Mhz CW and pulse & 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14x17 $\frac{1}{2}$ x11, 50 lbs sh. Used, repairable, \$165.

TS-403/URM-61, 1.8-4.2 Ghz CW, FM, pulse & 1 MW into 50 ohms. Similar to HP-616B. 17x13 $\frac{1}{2}$ x13 $\frac{1}{2}$ , 65 lbs sh. Used, repairable, \$185.00



## AUDIO OSCILLATOR

TS-382\* AUDIO OSCILLATOR, 20 Hz to 20 KHz in four bands. Output: 0 to 10 Volts across 1000 ohms. With built-in 60 and 400 Hz Reed Frequency Meter. Size: 10x12 $\frac{1}{2}$ x18 $\frac{1}{2}$ , SHPG. WT: 50 LBS. NET: 45 LBS. PRICE: USED, REPARABLE, \$49.50. CHECKED, \$65.



TS-382F AUDIO OSCILLATOR, MOST RECENT VERSION TS-382. USED, REPARABLE, \$60. CHECKED, \$75. TRANSIT CASE F/TS-382F, USED, \$10.00.

## 50 TO 400 MHZ FM

SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 Mhz in three bands. Internal modulation 1000, 1600, or 20000 Hz. External: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 Mhz), 0-30-150-300 KHz (100-200 Mhz), and 0-60-300-600 KHz (200-400 Mhz). Output: 0.1 to 1000 u-volts, -25%. 50 ohm output. Power required: 115 VAC 60 Hz. 15x11 $\frac{1}{2}$ x1 $\frac{1}{2}$ , 80 lbs sh. Used, repairable, \$225.00. Checked, \$295. MANUAL, partial repro, \$10.



## KLYSTRON POWER SUPPLY

HEWLETT-PACKARD 715A KLYSTRON POWER SUPPLY for low power klystron tubes. Output -250 to -400 VDC regulated 30 to 50 ma for the beam electrodes and 0-900 VDC regulated for the reflector electrode. Reflector volts can be modulated by internal 1 KHz square wave or externally; square wave modulation adjustable up to 120 V peak-to-peak. Frequency modulation for 60 Hz sine wave 0-350 V p-p. Requires 115/230 VAC 50-60 Hz. 7 $\frac{1}{2}$ x11 $\frac{1}{2}$ x13 $\frac{1}{2}$ , 26 lbs sh. Used, with output cable, \$49.50; Less, output cable, \$39.50



## VOLTMETER-VLF RECEIVER

ME-71/FCC AUDIO LEVEL METER, COVERS 20 TO 500 KHZ CONTINUOUSLY TUNABLE. AS SELECTIVE DETECTOR, IT MEASURES RF CARRIER ACROSS A 135 OHM BALANCED OR 600 OHM UNBALANCED LINE. VARIABLE ATTENUATOR PROVIDES INPUT SENSITIVITIES FROM -70 TO -42 DBM INDICATED ON 3 $\frac{1}{2}$ " DIA. METER. INCLUDES 100 KHZ CALIBRATOR. INPUT IMPEDANCE: 10K OHMS. AUDIO GAIN AND TWO PHONE JACKS. VARIOUS MODELS ("C" PICTURED). POWER REQUIRED: 115 VAC 60 Hz. 17x14x9, 40 LBS SH.

ME-71, w/NATIONAL-TYPE DIAL, USED, \$40.00. ME-71B, USED, REPARABLE, \$45. ME-71C, \$50. OPERATIONAL, ADD \$30. MANUAL, REPRO, \$8.50



## DISTORTION ANALYZER

HEWLETT-PACKARD DISTORTION ANALYZER MODEL 330BR. WILL GIVE QUICK ACCURATE MEASUREMENTS OF DISTORTION AS LOW AS 0.1% AT ANY FREQ FROM 20 CPS TO 20,000 CPS

IT WILL MAKE NOISE MEASUREMENTS OF VOLTAGES AS SMALL AS 100 MICROVOLTS. THE ANALYZER HAS HIGH SENSITIVITY AND HIGH STABILITY. ITS CIRCUIT 20 DB AMPLIFIER, OSCILLOSCOPE TERMINALS, AND PRECISION VACUUM TUBE VOLTMETER WHICH IS USEABLE SEPARATELY. EXCEPTIONALLY USEFUL FOR ALL KINDS OF AUDIO MEASUREMENTS IN RECORDING, BROADCAST, MOTION PICTURE, LABORATORY ETC. SIZE: 8 $\frac{1}{2}$ x19 $\frac{1}{2}$ x13 $\frac{1}{2}$  (RACKMTG) WT: SHPG. 40 LBS. PRICES: USED REPARABLE \$185. CHECKED \$225.

TS-723-C SPECTRUM ANALYZER, MILITARY VERSION OF HP-330B; USED, REP, \$165. CHECKED, \$210

## FM SIGNAL GENERATOR

SG-12/URM-F FM SIGNAL GENERATOR, 19.5 TO 200 MHZ FM IN FIVE BANDS WITH DEVIATION RANGES 0 TO 25, 50, AND 100 KHZ; 1000 Hz MODULATION. ALSO IF OUTPUTS ON 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 MHZ, PLUS TWO SPARE POSITIONS. CALIBRATED OUTPUT VOLTAGES: 0.5 UV TO .01 VOLTS (RF); 0.5 UV TO 1.0 V (IF). OUTPUT IMPEDANCES: 10 OHMS (RF); 25 OHMS (IF). WITH 1 MHZ AND/OR 2 MHZ CRYSTAL CALIBRATOR MARKERS. POWER REQUIRED: 115/230 VAC 50-1000 Hz. SIZE: 12x18x12; SHPG WT: 85 LBS. Used-reparable, \$185; \$100; Checked \$285; \$165. MANUAL for SG-12, partial reproduction, \$12.

## 10 KHZ TO 50 MHZ

AN/URM-25F SIGNAL GENERATOR, covers 10 KHz to 50 Mhz AM in nine bands. RF output: 0.1 to 1000 microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 KHz calibrator; designed accuracy  $\pm 0.05\%$  above 10 Mhz. Requires 115 VAC 50-100 Hz. 11x14x10 $\frac{1}{2}$ , 44 lbs. Used, repairable, \$145. Checked, \$210.00

ACCESSORIES available w/purchase of URM-25F: BOOK-partial repro, \$10. DA-109 Dummy Load \$6. CX-2919 Test Lead Adapter, \$7.50. CU-406 Impedance Matcher, 500 ohms up, \$7.50. CU-408 Impedance Matcher, 70 ohms, \$7.50. BNC Cables, 6", \$1.00; 4 feet, \$1.50

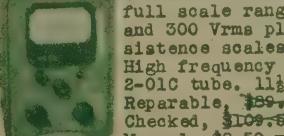
## SPECIAL SALE VTVM'S!

VACUUM TUBE VOLTMETERS at reduced prices due to special quantity purchase. All are used.

TS-505/U, ranges 0 to 2.5, 5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also X1 thru X1 Megohm ranges. Response: 30 Hz to 5 Mhz. With AC, DC, and ohm probes. 9 $\frac{1}{2}$ x6 $\frac{1}{2}$ , 17 lbs. Repairable \$45. NOW \$25. Checked, \$45. \$45. 500 Mhz probe \$10 w/purchase Manual, partial repro, \$8.50

HEWLETT-PACKARD 410B, features 20 Hz to 700 Mhz response with full scale ranges 1-3-10-30-100 and 300 Vrms plus 1000 VDC. Resistance scales X1 thru XI Meg. High frequency AC probe has EA53/2-012 tube. 11x7 $\frac{1}{2}$ x8 $\frac{1}{2}$ , 15 lbs sh. Repairable, \$109.50. NOW \$89.50. Checked, \$109.50. NOW \$85.00. Manual, \$8.50 with set purchase.

ME-180/USM-116, similar electronically to the HP-410B, set has added 0.02 to 1000 MA DC feature. Response to 100 Mhz with AC probe and to 700 Mhz with optional T-connector accessory. AC probe uses 6923/EA52 tube. 7 $\frac{1}{2}$ x19 $\frac{1}{2}$ , 21 lbs sh. Repairable, \$35. Checked, \$35. \$35. \$65.00. T-connector, \$10 w/set. Manual, par-repro \$10



## FM SIGNAL GENERATORS

BOONTON (HP) 202H AM-FM GENERATOR, 54-216 Mhz in two bands. Output 0.1 uv to 200 mv into 50 ohms. 0-50% internal AM; FM deviation 0-250 KHz in 4 ranges. 10x16x18 $\frac{1}{2}$ , 56 lbs sh. Used, repairable, \$365.

BOONTON 207H UNIVER, adds 100 KHz-50 Mhz range to 202B, \$75 w/202H purchase. MANUAL for 202H and 207H, \$12 w/set purchase.

MARCONI TFL0668/B/1, 10-470 Mhz AM-FM in five bands. Output: 0.2 uv to 200 mv. Modulation 1 or 5 KHz; FM deviation scales -20 and +100 KHz. 14x19 $\frac{1}{2}$ , 60 lbs sh. Used, repairable: rackmt \$465.; cabinet \$485.



## 0.1-10 GHZ FREQU. METER

TS-186/UP FREQUENCY METER, measures frequencies from 100 Mhz to 10 Ghz using harmonics of a 50-1250 Mhz heterodyne oscillator. Zero beat dial readings are interpolated into frequencies via a calibration book. Zero beat indicated on an 0-1 milliammeter or monitored through a 600 ohm headphone jack. RF signal input must be from 500 MV to 1 V for proper use. With tubes 2C40, 955, 5Y3, 2/OD3, and 5/6SJ7. Power required: 115 VAC 50-1000 Hz. 9 $\frac{1}{2}$ x8 $\frac{1}{2}$ x20, 48 lbs. sh. Used, repairable, \$75; Checked, \$185. \$110. MANUAL f/TS-186, partial reproduction, \$8.00

## TRANSISTORIZED SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4Q2P rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not available). Sweep range: 0.1 usec to 0.1 sec in 19 calibrated steps in 1, 2, 5, 10 sequence. Vertical sensitivity: 0.01 v/div to 20 v/div in 11 calibrated steps in 1, 2, 5, 10 sequence, variable to 50 v/div. Input impedance: 1 Mohm shunted by 47 pf. Calibrator generates 1 KHz square wave at either 0.04 or 0.4 V p-p. Probe and cover not available. Requires 115 VAC 50-60 Hz or 400 Hz. 8 $\frac{1}{2}$ x9 $\frac{1}{2}$ x14 $\frac{1}{2}$ , 28 lbs. Used, repairable, \$185.00. Checked, \$285. MANUAL, repro, \$15 w/purchase.



## PSM-6 MULTIMETER

AN/PSM-6 MULTIMETER, rugged compact unit 4 $\frac{1}{2}$ " dia. 50 microamp meter. Ranges 0.5-2.5-10-50-250-1000 VDC (1K ohm/v or 20K ohm/v) and VAC; 100 microamps to 1 amp DC. Also ohms multiplier scales X1 thru XIOK ohms. Readings to 5000 VDC and 10 amps possible when used with accessory adaptors which are not available. Requires 13.4 VDC battery tapped at 1.34 V. With test leads. 8 $\frac{1}{2}$ x7 $\frac{1}{2}$ x4 $\frac{1}{2}$ , 12 lbs sh wt. Used, repairable, \$45.00; checked, \$65.00

PULSE GENERATOR

RUTHERFORD B7F PULSE GENERATOR with 2 Hz to 2 Mhz repetition rate in five bands. Pulse delay: 0.0 to 10K u-sec. Width: 0.05 to 10K u-sec. Pulse output 50 V min. into 50 ohm load, positive or negative. Rise/fall time 0.015 u-sec. Sync pulse out 10 V min., 0.05 usec width; 0.03 usec risetime, positive polarity. Requires 115 VAC 50-60 Hz. 8 $\frac{1}{2}$ x19 $\frac{1}{2}$ x13, 50 lbs sh wt. Used, repairable, \$75.00



## DUAL-TRACE PRICE-CUTS

**AN/USM-140C OSCILLOSCOPE**, DC to 30 MHz mainframe, similar to H-P 170A. Includes MX-2930 DUAL-TRACE VERTICAL PLUG-IN WITH DC TO 22 MHZ PASSBAND. INPUT IMPEDANCE: 1 MEG-OHM SHUNTED BY 30 PF. INPUT SENSITIVITY: 0.02 VOLT/CM TO 20 V./CM. FUNCTIONS: CHANNEL A, CHOPPED, A-B, AND ALTERNATE. HORIZONTAL MX-3078 PLUG-IN SWEEP RATE: 0.1 u-SEC/CM TO 5 SEC/CM. HORIZ. SENSITIVITY: 0.1 V/CM TO 10 V/CM. MAGNIFIER XI TO X100. IN SEVEN STEPS. CALIBRATOR: 0.2 MV TO 100 V. IN NINE RANGES. POWER REQUIRED: 115/230 VAC 50-1000 Hz. SIZE: 14½x19x22; SHPG. WT: 110 LBS. PRICE: USED, REPARABLE, \$195. CHECKED, \$295. PRO-LOG M900 FROM PROGRAMMER with modules FM9001A (1702A), FM9005 (2704/2708), and PM-9052 (2716); book included. Used, \$295.00

## OS-8 OSCILLOSCOPE

**OS-8/U OSCILLOSCOPE WITH 3RPI CRT** HIGHLY PORTABLE UNIT HAS DC TO 2 MHZ VERTICAL RESPONSE; DC TO 500 KHz HORIZONTAL. VERTICAL AND HORIZONTAL SENSITIVITY: 0.075 V-RMS FOR 1" DEFLECTION. SWEEP RANGE: 3 TO 50 KHz. INPUT IMPEDANCE: 9 MEGOHMS SHUNTED BY 11 MMF (DC). DIRECT ACCESS TO VERTICAL AND HORIZONTAL PLATES. POWER REQUIRED: 115 VAC 50-1000 Hz. SIZE: 9x6x13½; SH WT: 20 LBS. PRICE: USED, REPARABLE, \$44.50; CHKD. \$69.50. \*\*\*\*\* MANUAL for OS-8, partial reproduction, \$8.50

## DUMONT 304H SCOPE

**DUMONT 304H OSCILLOSCOPE**, has big 5" CRT (5CP1). DC to 100 KHz response; usable to 300 KHz. 100 MV full scale vertical sensitivity. Sweep: 2-30 KHz. Max. sweep rate: 1" per u-sec. Input impedance: 2 megohms paralleled by 50 pf. Graticule not included. Power required: 115/230 VAC 50-60 Hz 9x13½x19; 65 lbs. sh. Used, reparable, \$45. 304H SCOPE shipped with 5CP1 CRT, \$49.50. DUMONT 304A SCOPE, same as "H" model, but uses 5ADP1 flat-faced CRT. Used, rep., \$50. MANUAL for 304A or H, partial repro., \$8.50

## SCOPE FOUNDATION

**TS-1273 OSCILLOSCOPE**, originally the display unit for a radar test set, but appears to be a good foundation for a compact scope. Features a 3" sq. flat-face (4MP1) CRT. 50 Hz-6 Mhz response; 0.05 u-sec risetime. Input attenuation ranges: .05, .1, .2, .5, 1, 2, 5, 10, and 20 v/inch. Selectable input imped: 7 megohms (approx) or 75 ohms. Controls for vertical, horizontal, astig., focus, intensity, vert. attenuator, and impedance. With CRT shield, bezel, and tubes 4MP1, 2/1V2, 5/5814, 2/6BQ5. No sweep generator, horiz. amp, or blanking circuits. Requires 250 VDC deflection volts; +1500 and -1500 VDC high voltage originally supplied from internal oscillator type source. Schematic inclnd. 17½x4½x8; 12 lbs. sh. Used, w/all tubes, \$30. W/4MP1 only, \$25.

## ME-6D VOLTMETER

**ME-6D/U VTVM**, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 KHz wide-band amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11½x6½x5½; 14 lbs. sh wt. Used, reparable \$30. Checked, \$50. MANUAL f/ME-6D, partial repro \$8.50

## SWEEP GENERATORS

**KAY 111A SWEEP GENERATOR**, 10-950 Mhz in two bands. Sweep width 50 KHz-40 Mhz continuously variable. Sweep rate variable around 60 Hz; locks at line frequency. RF output: 0.15 Vrms (Hi) or 0.07 Vrms (Lo) into 70 ohm. Sweep output approx. 20 V regular sawtooth. Has micrometer frequency readout and uses two 2K25 tubes in the oscillator. 9x19x17; 45 lbs sh. Used-reparable w/good 2K25's, \$65.

## SSB TEST EQUIPMENT

**SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR** for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent I.F. oscillators. IF output: 497.5, 498.5, 501.5, or 502.5 KHz only; also 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 50 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Designed distortion less than 60 db below max signal. Requires 115 VAC 50-450 Hz. 5½x19x11; 35 lbs sh. Used-reparable \$135; Chkd., \$195. MANUAL for SG-376, \$7.50 if purchased w/set.

**SG-823/URM-144 TWO-TONE REFERENCE SIGNAL GENERATOR**, used in the measuring of receiver sensitivity and SSB transmitter distortion. Provides two RF outputs which can be used independently or in combination with no intermodulation effects. Frequency outputs: 2.0, 3.6, 4.0, 7.2, 8.0, 14.4, 16.0, 28.8 Mhz at 100K u-volts max into 50 ohms. Frequency adjust ±0.05% (tone A), ±0.0025% (B). Distortion at least 60 db below max signal. Requires 115 VAC 60 or 400 Hz. 5½x19x11; 35 lbs sh wt. Used, reparable, \$125.00; Checked, \$185.00. MANUAL for SG-823, \$7.50 if purchased w/set.

## TV-2 TUBE TESTER

**TV-2 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER**, checks most military and older commercial receiving and low power transmitting tubes. Test sockets for 4, 5, 6, 7-pin, 7- and 9-pin miniature, octal, octal, acorn, sub-mini flat and round tube bases. Measures mutual conductance, emission, gas, noise, and shorts. Meters for filament, grid, plate, screen, signal, and transconductance (percent quality). Theoretically, a tube not listed on the roll data chart can be tested by setting the proper voltages on the meters provided those voltages are known. Requires 115 VAC 50-1600 Hz. 17½x8½x6½; 50 lbs sh wt. Used, reparable, \$75.00; Checked, \$110. MANUAL, partial repro., \$10.

## FR-149 FREQUENCY METER

**FR-149/USM-159 TRANSISTORIZED FREQUENCY METER**, COVERS 125 KHz TO 1000 MHz IN THREE RANGES: 125 KHz-2.5 MHz, 2.5-65 MHz, AND 65-1000 MHz. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS.

FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 Hz. SIZE: 11½x11½x13; SHPG. WT: 33 LBS. USED, REPARABLE, \$99.50 CHECKED, \$150.00

## 8500-9600 MHZ TEST SET

**TS-148/UP SPECTRUM ANALYZER**, 8470-9630 Mhz with 3" CRT (3RPI) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 Mhz/in. Requires 115 VAC 60 Hz. 19x13½x28; 45 lbs sh. Used, \$50.00.

**AN/UPM-33 TEST SET**, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, \$85.00.

**FR-72 TUNED CAVITY** for the 8500-9000 Mhz range. 0-30 u-ammeter indicates stored energy. With LN-23B crystal diode, UG-446 waveguide to N connector adapter, and 8' coax. 16x26x14; 40 lbs sh. Unused, \$34.95

## PHASE-TEST SCOPE

**MK56 PHASE-TEST SCOPE**, essentially an OS-8 oscilloscope modified to check phasing of selsyns and synchros. Major changes are the addition of a phase tune 0-360° dial and enlarged case. Unit has 3RPI CRT DC to 2 Mhz vertical, and DC to 500 KHz horizontal response. Sweep: 3 to 50 KHz. Input impedance: 9 megohms shunted by 11 pf. Schematic inclnd. Requires 115 VAC 50-1000 Hz. 9½x9½x17; 24 lbs sh. Used, reparable \$55.

## ORION AD VTVM

**ORION V-100M VACUUM TUBE METER** with 6" x 4½" mirrored scale; similar to Hewlett-Packard 400H. Twelve full scale meter ranges from 0.001 to 300 VAC (rms) or -60 to +50 DB. Response 10 Hz to 4 Mhz. Input impedance 10 megohms shunted by 24 pf (.001-0.3 V) or 14 pf (1-300 VAC). Requires 115/230 VAC 50-1000 Hz. 11½x7½x11½; 22 lbs sh. Used, reparable, \$45. Checked, \$75.

## DATA TECH 5313

**DIGITAL PANEL METER**, 0-20 VDC 3½ digits; Data Tech Model 5313-220. Accuracy: ±0.1% reading plus one count. Input impedance: 10 megohms. Has Sperry 7-segment 0.5" readouts. Also auto polarity, overvoltage protection 1200 V., external control and BCD outputs. Uses standard TTL and linear IC's for easy repair. Manual and schematic included. 4" x 1-7/8" H x 5½" D. 3 lbs sh. Checked, \$39.50

**AN/USM-50 OSCILLOSCOPE**, 3 Hz to 15 Mhz response with sweep delay and 3ADPI CRT. Sweep continuously adjustable 0.17 to 37.5 usec. Risetime: 0.022 usec. Markers at 0.2, 1, 5, 20, 100, 500, 2K usec. Vertical input impedance: 1 megohm shunted by 30 pf. Horizontal: 1 megohm shunted by 30 pf. Calibration: 1 KHz adjustable 20-200 mv. External connections possible to vertical plate and horizontal amp. Less probes. 15½x19½x16; 80 lbs sh. Used, reparable \$75. Checked, \$125. MANUAL, partial reproduction, \$10.00

**TS-54A/UP SCOPE**, 30 Hz to 1 Mhz response with 2AP1 CRT. Rise-time: 0.25-30K usec. Sweep adjustable in 3 ranges from 10-50000 Hz. Input impedance: 62 ohm (low) or 430K ohms (hi). Input sensitivity: 0.1 to 1 V at low impedance. 6x8x15; 40 lbs sh. Gov't record., \$65. Manual, \$8.50 w/set

## TRANSISTORIZED SCOPE



HFE T4214A TRANSISTORIZED OSCILLOSCOPE; ENGLISH MANUFACTURED SCOPE USES PRINTED CIRCUIT CARDS FOR THE PRE-AMP, SIGNAL DEFLECTION AMP, TIME BASE, INTENSITY MOD, AND SWEEP AMP. PROVISIONS ALSO FOR SIGNAL DELAY, TRIGGER PICK-OFF, AND TRIGGER DELAY PC CARDS (NOT AVAILABLE). ESTIMATED FREQUENCY RESPONSE: 300 KHZ LIMITED BY DEFLECTION AMP. USES 5LCP11 CRT; SWEEP IS FROM TOP TO BOTTOM BUT CAN BE CHANGED TO LEFT TO RIGHT. INCLUDES CONTROLS: FOCUS, BRIGHTNESS, ASTIG., SIGNAL SHIFT, INPUT ATTENUATOR (0.1 TO 10 V./DIV. IN 7-STEPS); TIME BASE (1 U-SEC TO 10 M-SEC IN 5-STEPS); MULTIPLIER X.5, X1, AND X2; TIME BASE SHIFT, TIME BASE DEFLECTION (EXT/INT); TRIGGER LEVEL; AND FREE RUN/ SINGLE SHOT. SLIGHTLY BENT FRAME; LESS CASE AND POWER PLUG. POWER REQUIRED: 115 VAC 60 Hz or 12 VDC 1 AMP. SIZE: 9x17x25. SHPG. WT: 60 LBS. PRICE: USED, REPARABLE \$50.00

## TELETYPEWRITER SCOPE



TDA-2N TS-1060 TELETYPEWRITER TEST SCOPE, MEASURES BIAS AND DISTORTION OF START-STOP AND SYNCHRONOUS TELEGRAPH SIGNAL ON A 3" CRT. INPUT SPEEDS APPROX. 60 WPM (5 UNIT CODE), 60, 75, 100 WPM 7.42 CODE, AND BAUD SPEED EQUIVALENTS TO 60, 75, 100 WPM (10.42 UNIT CODE). INPUT IMP. 100 OHMS FOR 60MA NEUTRAL; 300 OHMS FOR 20MA NEUTRAL AND 30MA POLAR. MEASUREMENT RANGE 0-50% MARKING, OR SPACING BIAS AND DISTORTION. TUBES: 3RP1, 5651, 0A2, 3/12AT7, 6X4, 0B2, 3/5963, 5726. POWER REQUIRED 115/230V 60Hz. 8x8x15. SHPG. WT: 24 LBS. USED REPARABLE \$34.95 (FOUNDATION UNIT) LESS C.R. TUBE 24.75

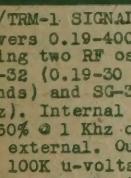
## ME-9 MULTIMETER



ME-9/TS-352 MULTIMETER, PORTABLE GENERAL PURPOSE VOM. 1000 OHMS/VOLT AC-DC SENSITIVITY OR 20,000 OHMS/V. SENS. DC ONLY. MEASURES AC-DC VOLTS FROM 2.5 TO 1000 V. IN SIX RANGES. DC AMPS FROM 250 U-AMPS TO 10 AMPS IN EIGHT SCALES; OHMS FROM X1 TO X10K. WITH 4" METER (FS=50 UA); JACK FOR 5000 VDC @ 20,000 OHMS/V.; AND TEST LEADS. REQUIRES THREE 4½ VDC AND ONE ½ VDC BATTERIES (NOT AVAILABLE). SIZE: 11x8x6; SHPG. WT: 17 LBS. USED. PRICE: REPARABLE, \$29.95; CHECKED, \$39.95

S-375/U VACUUM TUBE VOLTMETER, AC VOLTS RANGES FROM 1.2 TO 20 VAC IN SIX STEPS; DC VOLTS FROM 1.2 TO 300 VDC. FREQUENCY RESPONSE FROM PANEL TERMINALS: 40 Hz TO 50 KHZ; OR 0 KHZ TO 150 MHZ USING PROBES. WITH BOTH AC AND DC PROBES. POWER REQUIRED: 115 VAC 60 Hz. SIZE: 10x10x6; SHPG. WT: 23 LBS. USED. PRICE: REPARABLE, \$18.95;

## MULTI-PURPOSE TEST SET



IN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation -60% @ 1 KHz or 200-6000 Hz external. Output: 2.5 to 1000 u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable \$135. Checked, \$225. MANUAL, partial repro., \$10.



## TEKTRONIX

TEKTRONIX manufactured test equipment removed from service. Sold in "used, repairable" condition. Write for "checked" price. Scopes requiring plug-ins are sold "less plug-in." Qty. ltd.

TYPE 531 DC to 15 Mhz, plug-in type, \$150.00  
532 DC to 5 Mhz, plug-in type, 125.00  
533 DC to 15 Mhz, plug-in type, 165.00  
535 DC to 15 Mhz, with sweep delay, plug-in type, \$185. Checked, \$250.  
RM35A rackmount 555A, \$205. Chkd, \$265.  
536 DC to 10 Mhz X-Y scope w/T plug-in; requires additional plug-in, \$250.  
543A DC to 30 Mhz single time base, x100 mag., plug-in type, \$215.00  
545 DC to 30 Mhz with sweep delay, plug-in type, \$250. Checked, \$325.  
RM45A rackmount 545A, \$265. Chkd, \$340.  
551 DUAL-BEAM to 25 Mhz, uses two plug-ins; with ext. power supply, \$295.  
555 DUAL BEAM to 30 Mhz w/sweep delay, Type 21 and 22 time base plug-ins, and external power supply; requires two vertical plug-ins, \$350.00  
RM61A compact scope w/2B67 time base plug-in and choice of 2A60 1 Mhz or 2A63 300 KHz diff. plug-in, \$275.00  
575 TRANSISTOR CURVE TRACER SCOPE, \$285.  
RM585A DC to 80 Mhz with sweep delay and 82 dual-trace plug-in, \$525.00  
661 PULSE SAMPLING SCOPE w/4S3 dual-trace and 5T1A time base, \$295.00

TEKTRONIX TYPE 82 DUAL-TRACE SCOPE PLUG-IN, DC to 80 Mhz response for 580-series \$175.  
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TEK TYPE CA DUAL-TRACE, DC to 24 Mhz for 550, 540, and 550-series scopes, \$110.00  
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Other vertical amp plug-ins for Tektronix scopes and similar ones by other manufacturers. Add \$10 for units of Tektronix manufacture. All "used-repairable":  
TYPE B, Wide-band, high-gain, \$35.00  
TYPE D, High-gain, DC differential, \$25.00  
TYPE E, Low-level, AC differential, \$35.00  
TYPE G, Wide-band, DC differential, \$20.00  
TEK TYPE 53/54K, Fast-rise, \$45.00  
TYPE L, Fast-rise, high-gain, \$55.00  
TEK TYPE M, Four-trace, \$175.00  
TEK TYPE Q, Transducer/strain gage \$175.00  
TEK TYPE T, for 538 scope, \$125.00  
TEK TYPE W, High-gain diff/comparator \$175.00  
TEK 2B67 Time base for 560-series, \$100.00  
TEK 5T3 Timing unit for 661 sampler, \$100.

TEKTRONIX 180A TIME-MARK GENERATOR, 14 time-mark intervals from 1 u-sec to 5 seconds. Three sine wave freq: 5, 10, & 50 Mhz. Trigger rate freq: 1, 10, 100 Hz and 1, 10, 100 KHz. Power required: 115/230 VAC 50-60 Hz. Size: 13x10x16, 37 lbs sh. Used, reparable \$75  
Used, checked, \$100.00

TEKTRONIX 110 PULSE GENERATOR and TRIGGER TAKEOFF SYSTEM, 0.25 n-sec risetime, 720 p/s repetition; trigger regenerator output 6 to 10 volts for 220 to 280 n-sec for triggering scopes with slow trigger response. \$125.00  
TEKTRONIX 453 SCOPE, dual trace DC to 50 Mhz; compact solid-state unit w/manual, \$295.00



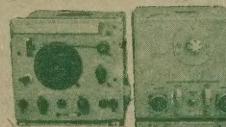
TEKTRONIX 190A CONSTANT-AMPLITUDE SIGNAL GENERATOR with 190A attenuator unit; produces sine waves at constant amplitude in the 350 KHz to 50 Mhz range. Six bands; output continuously variable over entire range. Also 50 KHz position variable over narrow band. Output amplitude variable from 40 mv to 10 v peak-to-peak. 190A attenuator attenuates 0.1, 0.25, 0.5, 1, 2.5, 5, and 10 at nominal impedance of 52 ohms. Requires 115/230 VAC 50-400 Hz. 9x13x11; 30 lbs sh wt. Used-reparable \$145. Checked \$125. Checked \$145.

## FREQUENCY METERS



AN/URM-32 FREQUENCY METER: 125 KC TO 1000 MC IN THREE RANGES, CAN ALSO BE USED AS A SIGNAL GENERATOR WHICH PROVIDES A CHOICE OF MODULATED OR UNMODULATED SIGNALS FOR TESTING AND CALIBRATING RADIO EQUIPMENT. SENSITIVITY WITH AN RF OUTPUT OF .05 MW MINIMUM IS OBTAINED. ACCURACY .01%, RF 100 UV MINIMUM ACROSS EXTERNAL 50 OHM RESISTIVE LOAD. FIVE TUBE HETERODYNE TYPE, POWER REQ. 6 VDC 1 AMP. 180 VDC 25 MA., DRY BATTERY OR AC SUPPLY CAN BE USED. METER IS USED TO READ P.S. VOLTAGES. W/CALIBRATION BOOK SIZE: 13x12x13; WT: 29 LBS.

Price: Used, repairable, \$65. Checked, \$95. 115 VAC 60 Hz power supply, \$20 additional.



LM-21 FREQUENCY METER with AC power supply; Crystal calibrated unit covers 125 to 20,000 KHz in two bands. Design accuracy better than 0.02%. AM modulation 40% at 500 Hz. Output voltage: 250 u-volts min. Output impedance: 600 ohms. With calibration book, 1000 KHz crystal, and tubes 6A7, 76, 77, 2/991. Requires 115 VAC 60 Hz. Size: 8x8x8, 14 lbs sh. (meter); 8x8x8, 15 lbs sh. (power supply). Used, \$24.95. CHECKED, \$50. Set w/RECONDITIONED meter, \$65. POWER INPUT CONNECTOR for meter, \$2.00 each. CONNECTORS (2) for power supply, \$2.00 each. SHOCKMOUNT, \$2.50. MANUAL, \$7.50. METER ONLY, less tubes, xtal, cal-book, \$12.

PLUG-INS FOR HP-524 AND SIMILAR COUNTERS. USED, REP. ADD \$10 FOR HP MFG.

MX-1637 10-100 Mhz, \$35. CV-594 100-220 Mhz, \$25.

HP-525C 100-500 Mhz, \$125. HP-526A VIDEO AMP, \$40.

MX-1636 TIME INTERVAL, \$25.00

HP-526C PERIOD MULTIPLIER, \$40.00

TRANSIT CASES F/525-526 PLUG-INS. STEEL (11x8x8), \$5.00. FIBERGLASS (14x9x9), \$10.00



## TS-510A SIGNAL GENERATOR



TS-510A/USM-44A SIGNAL GENERATOR, 10 to 420 Mhz AM, CW, and pulsed carrier. Internal modulation 400 or 1000 Hz. External mod: 100 Hz to 20 KHz. Output: 0.1 uvolt to 0.5 volt into a 50 ohm load. Large 3½" round meters indicate Percent Modulation and Output Volts-DBM. With built-in

1 Mhz and 5 Mhz crystal calibrator. Similar to Hewlett-Packard 608D. Power required: 115/230 VAC 50-1000 Hz. 13x16x21, 80 lbs. Used, repairable with output, \$25.00. MANUAL for TS-510A, partial reproduction \$10.

## 4 TO 405 MHZ GENERATOR



SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 Mhz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K u-volt output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min., 50-5000 pps; duration 2-40 u-sec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz. 11x14x10, 36 lbs sh wt. Used, repairable, \$175.00. Checked, \$225.00. Manual, partial repro. \$10. ACCESSORIES sold only w/purchase of URM-26B: CN-315 2:1 attenuator, 50 ohms, \$6.00. CN-316 10:1 50 ohms, \$7.50. CN-471 10:1 70 ohms, \$8. CU-439 impedance matcher, \$7.50. BNC cords, 4 ft, \$1.25; 6", \$1.00.

## PRINTER MECHANISM

MATRIX PRINTER MECHANISM, precision German-made mechanism used in a U.S. assembled matrix printer which had speeds upto 180 CPS bidirectional, 0-132 or 0-158 columns. Includes single platen, ribbon drive, motors, belts, paper guides, etc. In 26" Wx22" Hx20" D beige plastic case with cast-aluminum base. Cover lifts for easy access. Add your own control/interface electronics and print heads and make it operational. 75 lbs sh wt. #MPM/M12, unused, \$125.00

#MPM-2P/M12 MECHANISM, same as above except with dual platen; 80 lbs sh. Unused, \$250.00

PRINTER CASE only as above, #MPM/M12, \$25.00  
PRINTER STAND for the above or other items. 25" high with 13"x24" top support for bolting on desk top or cabinet. Space behind foot panel for storage. Welded steel construction; chocolate brown. O/A 25x24x21, 38 lbs sh. Shipped bus or truck only. #PSD/M12, \$25.00

\*\*\*\*\*  
DATANETICS KEYBOARD as used with matrix printer. 75 keys ASCII encoded. Requires -5, -12 VDC. Assembled keyboard with unassembled, unpainted enclosure. Edge connector, hardware, pinouts incl'd. \$89.95

## MECHANISM PC BOARDS

#217D-242 CARRIAGE-RIBBON MOTOR DRIVER BOARD, provides outputs for red/blk ribbon solenoid, ribbon motors, and carriage as well as voltages for Processor, Controller, and RAM PCB's. Has power transistors 6/TIP142, 3/TIP-140, 3/TIP145, 2/TIP2955, 2/LM320T-12, 2N3055, and related transistors and 74-series IC's; +40 +5 +9 VDC req. \$16.95

#217D-243 PAPER FEED #1/ HEAD DRIVER PCB, provides outputs for printhead needles, voltages for carriage/ribbon motor PCB, I/O for optical clock, and output to paper feed #2. Has transistors 13/TIP142, 2/TIP145, 2N3055, 4/MPL1455P IC's, and 16/74-series IC's. Requires +40 +9 +5 VDC; \$8.95  
\*\*\*\*\*

PRINTER POWER SUPPLY as used with above. Has AC outputs 2/24, 6, 18, 42-14-0-14-42 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, \$17.95

## PRINTER INTERFACE PCB

\*\*\*\*\*  
#217E-238 PROGRAMMABLE INTERFACE, has 8080A microprocessor, 8251 programmable communications interface, 2/8255 programmable peripheral interface, 8224 clock generator, 8228 controller, 3/8205 decoders, MC14411 baud rate generator, 4/2111-4 256x4 RAM, 4/4804 1024x4 RAM, 74123, 74196, and 74LS04. Also four 8-place DIP switches for baud rates 75-110-134.5-150-200-300-600-1200-1800-2400-3600-4800-7200-9600 and sockets for 2/2708, 4/4804, 8251, and secondary transmit-receive components. Requires -9 and +5 VDC; 7x10.5. \$85.00

#217D-249 SERIAL INTERFACE, has 8212 8-bit input-output port, 8251, MC14411, 75188, 75189, 74LS08, 74LS10, two 74LS243, 1.8432 Mhz crystals, five 8-place DIP switches for baud select as on #217E-238 interface. Provision secondary xmit-receive components. -12 +12 -5 +5 VDC; 4x7. \$27.95

## COMPUTER FOUNDATION

DISPLAY CIRCUIT BOARD WITH EIGHT 3/8" 7-SEGMENT LED READ-OUTS, EIGHT RED LED's, 15 DARLINGTONS, 8 PNP TRANSISTORS 3/C4003 SHIFT REGISTERS, PLUS OTHER COMPONENTS, BLOCK DIAGRAM. 10x3, #ECR7700, \$9.95

COMMUNICATIONS CIRCUIT BOARD, CONTAINS MODEM CARD WITH 7/1458 OP AMPS (NO SCHEMATIC). MAIN BOARD HAS TMS-6011 UART, INPUT SHIFT REGISTERS, AND GATES (TEN IC's). ALSO INPUT TRANSFORMERS FOR MODEMS, SELECT WIRING FOR 4- OR 2-LINE INPUT, AND LEVELS 0 DBM, -3 DBM, -6 DBM, OR -9 DBM. MODEM INFO, BLOCK DIAGRAM. #ECR9600, \$12.95

IMPRINTER LOGIC BOARD, THREE 200 VOL 4 AMP TRIACS DRIVEN BY CONTACTS OF THREE 12 VDC REED RELAYS. ALSO HAS 2/4003 PNP's, 3/9002, AND A 4049 HEX BUFFER/CONVERTER. W/BLOCK DIAGRAM. 10x4, #ECR9060, \$7.95

CONTROL CIRCUIT BOARD WITH C4004 4-BIT MICROPROCESSOR, 2/4003 SHIFT REGISTERS, 3/4002 RAM's, AND 8/4001 ROM's. ALSO A 4.704 MHZ CRYSTAL, FIVE OTHER IC's FOR CLOCK AND GATING, 12 IC SOCKETS, BLOCK DIAGRAM. 10x5, 3 LBS. #ECR9620, \$13.95

MICROCOMPUTER POWER SUPPLY, USES TWO 3-TERMINAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. INPUT: 115 VAC 60 Hz; OUTPUT: -25 VDC 180 MA; -5 VDC 800 MA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 3x5x4; SHPG. WT: 10 LBS. #ECRPS-744, \$15.00

CREDIT CARD SCANNER, USES AN OPTICAL SYSTEM TO READ THE RAISED NUMBERS OF A CREDIT CARD INTO IN PHOTO ARRAY. HAS SMALL AC MOTOR TO DRIVE CARD THROUGH THE READER. ALSO LIGHT AND PLASTIC OPTICS, TWO ROCKWELL IC's 10561 AND 15120. WITH DIAGRAM OF CONNECTOR WIRING. 5x5x4, #ECR2020, \$7.95

20-KEY KEYBOARD, 5/8" SQUARE BUSINESS KEYS WITH CHARACTERS: 0 THRU 9, CLR, RST, CRED, CASH, IMP, SEND, RET, CODE, \$, AND ACCT. TWO BUSSES: ONE FOR NUMBERS; THE OTHER FOR INSTRUCTIONS. SIZE: 4x4, WT: 2 LBS. #ECR4835, \$3.95

\*\*\*\*\*  
ECR COMPONENT PACKAGE DEAL THE ABOVE SEVEN ITEMS WITH AN ECR-PREFIX WERE ORIGINALLY COMPONENTS OF AN ELECTRONIC CARD READER SYSTEM. THEY MAY BE PURCHASED INDIVIDUALLY AS MARKED OR TOGETHER AS A PACKAGE FOR \$45.00

POWER SUPPLY BOARD f/printer: 41 IC's & sockets (mostly 74-series); 32 power transistors (mostly 10 amp TIP-140-142-145); 3/VTA200-S 200 V 25 A bridges; 5/1N3801 100 V 12 A diodes; and related. Also axial capacitors 11/6800 uF 16 V; 5/1500 uF 63 V; 4/220 uF 25 V; 1000 uF 25 V; plus 56/6.8 uF 35 V and 10/4.7 uF 35 V tantalums. 20x14; 5 lb. #803-195 \$22.

## P8085 PROCESSOR PCB

#217D-244 CONTROLLER CPU, directed electro-mechanical functions of printer. Has P8085 MPU with 5.7143 Mhz crystal, 2/8255A programmable peripheral interface, 8253 programmable interval timer, 8212 8-bit I/O, 4/8205 one of 8 decoder, nine 3341 FIFO shift register, 4/2111-1 RAM, 7400, 3/74LS00, 74LS25, 74LS161. Sockets for 6/2708. +12, -12, +5, -5 VDC req. \$100.00

#217-246 PROCESSOR CPU, has P8085 w/5.185 Mhz crystal, 8255A, 8212, 8253, 3/8205, 4/2114 RAM, 74LS00, 74LS02, 74LS32, 74LS93, and 74LS244. Also sockets for 4/2708 EPROM. Requires +5 VDC (plus +12 and -5 VDC for 2708's). Originally used with Datarnetics keyboard; 10x7. \$75.00

## COMPUTER TERMINAL

795 VIDEO DISPLAY, CONVERTIBLE INTO A GRAPHICS TERMINAL AS DESCRIBED IN IN SEPT. '76 ISSUE OF 73 MAGAZINE. CONSISTS OF 12" DIAGONAL MAGNETICALLY DEFLECTED CRT, INTERNAL DC-TO-DC CONVERTER, 10 KV SUPPLY, HORIZONTAL AND VERTICAL DEFLECTION AMPS, AND INTERNAL MUFFIN FAN. WITH CONTROLS FOR INTENSITY, HORIZ. AND VERT. GAIN/POSITION. REQUIRES 115 VAC 60 Hz. POWER CONNECTOR NOT AVAILABLE. SIZE: 15x17x21; SH WT: 100 LBS., 75 LBS. NET. USED, \$59.50



CONTROL ASSEMBLIES ON 9x4 HEATSINK. USED, EXCELLENT YIELD ON SEMI CONDUCTORS. SHPG WT. 4 LBS EA. SIMILAR TO PICTURE ORDER BY NUMBER

TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

8/TO-3 60V (SIMILAR TO 2N3055) AND 8/TO-66 (SIMILAR TO 2N3054) 60V TRANSISTORS, 8/0.4 OHM 5W AND 8/30H 3W RESISTORS, 8/0.4-6 DIODES WITH INSULATED MOUNTING HARDWARE. #7729 \$5.75

TRANSISTOR CONTROL ASSEMBLY, CONTAINS 8/TO-3 AND 8/TO-66 AND Emitter Resistors AS ABOVE, SMALL DIODES AND RESISTORS. #0425 \$5.00

CONTROL CLUTCH ASSEMBLY AND HEATSINK 9x4 IN. 8/100V TO-3 AND 2/60V TO-66 TRANSISTORS, FIVE 0.4 OHM 10 W RESISTORS, MORE. #095-8139 \$4.00

SOLENOID DRIVER ASSEMBLY WITH 6/70MF 300V CAPACITORS, 6/ 60 OHM 3% 10WATT DALE RESISTORS AND DIODES. 3LB #340C4587 \$3.50

TALLY LOGIC; 26/2N3643, 2N6027, 3/324, TWO 16 PIN SOCKETS, 500MFD 75V, 2/200MFD 25V 4MINI POTS, RESISTORS, CAPACITORS, DIODES SH WT 2 LBS. #691746 \$3.50



REED RELAY

REED RELAY BOARDS LISTED BELOW CONTAIN 12VDC REED RELAYS AND ASSOCIATED COMPONENTS. ORDER BY BOARD NUMBER. SH WT. 3 LBS.

#5336 1/DPST, 4/SPST, 2/4PST, mercury wetted relay SPDT, 26 diodes. \$3.95

#5346 12/SPST, DPST, 2/DPF mercury wetted. 5 transistors, 51 diodes, capacitors 3/25 mf 50 V and 1/47 mf 55 V. \$5.95

#5361 3/DPST, 4/SPST, mercury wetted SPDT, 6 transistors, 24 diodes, and misc. capacitors and resistors. \$3.95

#B40360 MAGNETIC REED SWITCHES with bias magnetics on board, \$4.95

#315D339 Eight Clare HGSM 7004 mercury wetted relays on board, \$3.95

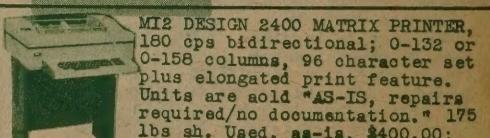
REGULATOR and PREREULATOR CARDS, w/current limit and OV. Not complete regulator. Has transistors, diodes, zeners, resistors, capacitors. Needs about -50 VDC f/preregulator. #RB4561-4, for 4 to 5 V. regulator, \$2.50 #RB6428-32, for 32 to 36 V. regulator, \$2.00

READ & SWITCH CORE CURRENT SOURCE, two 8 V reference diodes, 3/2x2x1 heatsink w/two transistors, 6-section inductor, 25 W 7.5 ohm rheostat, Dale 25 W 31 ohm 1% precision power resistor; 4 lbs sh. #315-CS, \$2.00

TALLY RECEIVER, 15/741's (two in socket), one 723 in socket, four transistors, six trim pots resistors, capacitors, etc. #601740, \$3.95

MT2 DESIGN 2400 MATRIX PRINTER, 180 cps bidirectional; 0-132 or 0-158 columns, 96 character set plus elongated print feature. Units are sold "AS-IS", repairs required/no documentation. 175 lbs sh. Used, as-is, \$400.00; As-is, less printhead, \$300.00

PRINTER EXERCISER for the above printer; selectable baud rates from 50 to 9600. Uses 8080A, 8255A, 8251, 8224, 8228, & 4/2708's. In transit case; 8 lbs sh. \$100.00



**TAKE 25% OFF  
TOTAL PRICE WHEN YOU BUY  
ANY 4 CIRCUIT BOARDS BELOW**



CPU'S  
RAM'S



C8008-1 CPU, \$9.95 8080A CPU, \$4.95  
P8085 CPU, 12.95 8205 decoder, 2.00  
8212 8-bit I/O 1.75 8228 control, 4.50  
8251 programmer 5.95 8255 programmer 4.95  
2111 RAM \$3. 4/\$10. 2114 RAM \$4.95 4/\$17.  
4804A RAM \$5. 4/\$18. MC14411 baud gen. \$9.  
AY5-1013 UART, 4.00 3341 FIFO \$4. 4/\$14.  
FRI-502 EO2 FIFO 6.95 1458 dual op-amp \$3.95  
RC4558 dual op-amp 50¢ MC1489 quad-line, \$1.  
7400, 7410, or 7440, one type, 10/\$1.00  
8224 clk. gen. \$3.00 CL93LQ38 photo 2/\$1  
FFA103 light reflective transducer, \$1.25

CMOS IC's, good pull-outs w/ '79 date codes:  
4013BE 5/\$1. 4024BE 3/\$1. 4060BE 2/\$1.  
MC1723C 5/\$1. MC1741S 3/\$1. MC8403P 3/\$1.

MPS6513 equivalent (Motorola w/0139 house #)  
NPN RF transistor; 30 V, to 350 Mhz. 6/\$1.  
MPSA14 NPN darl 5/\$1. 2N3055 NPN 10 A, 75¢  
TIP2955 PNP 10 A 85¢ 2N4126 PNP lo-no 6/\$1  
2N6346 unijunct 75¢ TIP120 NPN darl. 75¢  
TIP140 NPN darl. 95¢ TIP142 NPN darl. \$1.00  
TIP145 PNP darl \$1.00 7808 8 v reg., 3/\$1.

1 AMP 50 PIV 15/\$1. 35 AMP 50 PIV \$1.80  
400 PIV 12/\$1.  
1000 " 6/\$1.  
5 AMP 800 PIV, \$1.75 1N3890 100V 12A 4/\$3.  
MR-series, 6 AMP ZENERS, 1 W: 3.3 3.9  
MR750 50 PIV 85¢ 4.1 10.2 V 4/\$1.  
MR751 100 " 95¢ 11.6 12.0 V 3/\$1.  
MR752 200 " \$1.10 1N2974B, 10 W 10 V  
MR754 400 " 1.25 5% stud mt. \$1.25  
1N1357RA ZENER, 10 W 18 V 5% rev-polarity \$1.  
VARO VTA200/S 200 V 25 amp bridge rectifier,  
c.t. cathode, stud mount, \$1.00 ea. 4/\$3.  
#50-100A RECTIFIER, 50 V 100 A conservative;  
no hardware or pigtail. House #; 2x1". \$2.  
GE#A70RKL13, 200 PIV 100 A, no hardware \$4.50

LED'S RED, T-1½ size 8/\$1. GREEN 6/\$1.  
DARK RED, HP5082-4697, 6/\$1.00  
7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 \$1.  
SLA-2 DISPLAY; .33", - or -1 and 1, 2/\$1.00

IC SOCKETS 8-pin low-profile 5/\$1.  
14-pin wire wrap 6/\$2.  
14-pin standard 5/\$1.  
16-pin stnd. 4/\$1. 16-pin 1.p. 5/\$1.  
18-pin 1.p. 4/\$1. 20-pin 1.p. 35¢ 3/\$1.  
22-pin 1.p. 3/\$1. 24-pin 1.p. 40¢ 3/\$1.  
24-pin stnd. 50¢ 28-pin 1.p. 45¢ 5/\$2.  
28-pin stnd. 60¢ 40-pin stnd. \$1.00

JUMPERS PCB jumpers, unused.  
#50-14P2; two 14-pin, 18" long, \$2.50 1.95  
43-16P1; one 16-pin, 12" " 1.50 3/\$3.  
44-16P2; two 16-pin, 48" " 3.00 2.40  
43-24P1; one 24-pin, 12" " 2.00 1.50  
60-24P2; two 24-pin, 28" " 2.50 1.75  
57-28P2; two 28-pin, 4" " 2.50 2.75  
44-40P2; two 40-pin, 28" " 4.25 3.25  
9-14P1; one 14-p, 23" loose leads, \$1.75

PC BOARD JUMPERS with IC plug and DP25P, 16":  
16-pin, #16/DP25P \$4. 24-pin, #24/DP25P, \$5.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA  
BOOK (1975), 272 pages, \$1.00

COPPERCLAD PCB Single-side copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed as noted. Some drilled (d).

PH#	Size	Price	Size	Price	Size	Price
	4x18	\$7.50	17x20(d)	\$3.	15x22	\$3.50
FIB#	11x18	\$2.50	13x24(d)	\$3.25		
***	***	***	***	***	***	***
VERY THIN COPPERCLAD,	less than half thickness of above;	easily flexed to make cylinders, RF shield, or laminates; fiberglass core. Single-sided (S3) or double-sided (DS).				
Size	In	Price	Size	In	Price	
#VTC-SS	14x18	.019"	\$1.75	18x24	.015"	\$2.25
#VTC-DS	11x14	.031"	2.00	22x28	.006"	2.50
BUY 5 or more one type,			take 20% off price.			

## EDITOR KEYBOARD

WORD PROCESSOR KEYBOARD, has standard 58-key typewriter format, 13-key alpha pad, and 53-keys with editing designations such as READ, WRITE, SENTENCE, PARAGRAPH, LINE INSERT CHAR, LINE DELETE CHAR, SEARCH, LOCATE, MERGE, COMBINE, LIST, COPY TAKE, PROOF TAKE, etc. (Copy of layout available upon request with SASE). Keys gray, black, and blue; eight IC's including SW-11830 controller. Requires +5 VDC, -12 VDC. No further info available. 8x19, 17 lbs sh. Microswitch #125D12-1 NEW \$29.95

CORTRON KEYBOARD with ferrite core key switches. Has standard 54-key typewriter format, 12-key numeric pad, and 17 entry keys (4 unmarked). Butterscotch-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74155, 4/74145, 743287, 3/74LS00, LS02, 2/LS04, 2/LS10, LS08, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3086, MC833P, and 80-551276 controller. Requires +5 and -12 VDC; No further info. 6x18, 4 lbs. #55-500168 NEW, \$24.95

## 12 V 5 AMP RECHARGEABLE

GATES LEAD-ACID BATTERY PACK, six 2 VDC 5 amp cells connected to produce 12 VDC 5 A. These are rechargeable. Each cell 3x12 dia: 7 lbs sh. #6-0800-004, NEW \$15.95

GOULD NI-CAD BATTERY, 12 VDC 1.2 amp hr; rechargeable. In plastic case with leads. 2x5 x2, 3 lbs sh. #401097-6, unused, \$6.95

## ARCADE "JOY STICK"

"JOY STICK" CONTROL PANEL, originally p/o arcade video space game. Has two "joy sticks" -- one moves left-right/up-down, the other left-right only. Each position actuates SPDT V3-style Microswitch. Also has 5/8" dia "Fire" button; mounted on 4x13½x2 steel panel. 6 lbs sh wt. #JS-4P-2P, used, \$7.95 each.

## Cermet Trimmer

95/RJ12 CERMENT TRIMMERS  
1" RECTILINEAR 23 TURN.  
79¢ EACH. 2 FOR \$1.50

TYPE Y 190 20-turn

1" 1a 200 100K 2/\$1

WESTON 804P, 3-pin broad-

side; 3/8" sq plastic. 50K 4/\$1.

CERMET and other manufacturers; all 1" sq.

TYPES 170-171 2/\$1. 172 3/\$1.

Type 170; metal, 3-pins on broad

side: 1K 25K 50K 100K 250K 500K 1M

Type 171T; metal top adj. 3-

pin thin side: 200 500K 1M

Type 171S; side adj: 200 100K 250K 500K 1M

Type 172; wire leads: 100 200 1K 2K 5K 10K

25K 50K 100K 250K 500K 1M

Commercially designed PC board w/position info; less components.

#217D-101 EPROM BOARD for eight 1702A EPROM, 4/7404, 2/3404; w/edge connector, \$4.00 \$3.

#217D-136 2K RAM BOARD for sixteen 2102 RAM, 7/7404, 7420; with edge connector, \$5.00 \$4.

MICROPROCESSOR CIRCUIT BOARD, has C4004 P-channel microprocessor, 4/P4001 256x8-bit PROM, 2/P4002-1 320-bit RAM and 4-bit output port, 3/4003 10-bit serial in/parallel-serial out shift register, plus 53 transistors. #IC-07, \$5.50

FLUORESCENT DISPLAY, 12-digit DG1001, 1-1/8" high with 1" display; 27 transistors and associated resistors, capacitors, etc. 3 lbs. sh. #QP3666, \$5.95

12-DIGIT FLUORESCENT DISPLAY using DG-10A 1-5/16" H tubes with 5/16" display; 21 transistors, two IC's, capacitors, resistors, etc. 22-contacts on 5x3x3/8 board. #QP-3304 \$3.95

FAIRCHILD IC'S: 4/9002, 2/9015, 2/9016, 74180 3/9024, 2/9062, 9/2N2222 plus resistors, diodes, etc. 2 lbs. sh. #C200504G1, \$1.95

TIMER-COMPARATOR, IC's 2/NES55V, 2/IM39, 8/7400, 4/7404, 3/7408, 2/7410, 2/7411, 3/7474, 5/7493, 2/74123; two 5x trim pots, 7x8, \$3.

TWELVE DIGIT FLUORESCENT DISPLAY #P02, 3/8" DIGITS WITH CHARACTERS 0 THRU 9, ., -, ., AND DECIMAL POINT. TUBES ABOUT 2" HIGH. ALSO 2/M5812 COUNTER IC's, 27 TRANSISTORS, AND OTHER PARTS. 9x8x2x2, SHPG. WT: 4 LBS. \$6.95

DIODE MATRIX 34 X 20 CONTAINS 90 DIODES IN4004 OR EQUAL. 6x11 #005330 \$3.95

DIODE MATRIX 25 X 7, 23 TRANSISTORS, DIODES WITH 22 PIN SOCKET. 7x4, #201020

CORE MEMORY ARRAY 2 SECTIONS EACH 52 X 52 BOARD SIZE 13x13x1 #2162301 5 LB \$3.95

SMALL CORE MEMORY ARRAY, 2 SECTIONS APPROX 65x15 EACH. 4 REED RELAYS 2/3PST, 2/5PST 7x4x2x1 #2006000 \$2.95

ENDORS DRIVER 4/DM8851 DUAL RETRIGGERABLE MVBR, 7474, 9109 HIGH VOLTAGE HEX INVERTER, 2/7400, 7420, 7406, 18 BYPASS CAPACITORS. TO-3 TRANSISTOR ETC 1 LB #484-0001801 \$1.50 CARD READER CONTAINS A TEN SECTION SPST DUAL IN LINE SWITCH, A 8 POSITION MINIATURE PC ROTARY SWITCH; 5/7400, 4/7404, 7/7408, 5/7410 4/7420, 7437, 74109, 3/74157, 74180, 9022 2/N82S62, 2/SN29301, NCR 94, 8 IC'S NO CROSS REFERENCE. SH WT 2 LBS #315-0529449 \$3.50

CMOS #84293: 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 A 64x8x5 CHARACTER GENERATOR 7417. 9x7, SH WT 2 LBS #84293 \$7.50

CMOS-K1: 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024, 5/4040 9x7, SH. WT. 2 LBS #CMOS 84292 \$6.95

CMOS #14007; 4/4001, 2/4011, 2/4013, 4042, 4558 DUAL OP-AMP, 23 TRANSISTORS, MANY RESISTORS, CAPACITORS. 1 LB #14007 \$2.95

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IC BOARD #595254: 3/9322 QUAD 2 INPUT MULTIPLEXER, 7402, 7404, 7406, 7410, 3/7438, 741, 7442. 1 LB #595254 \$1.95

5-CORE ROSIN TYPE, self-fluxing; 60 tin/40 lead 20SWG 16 gr. 21 dispensing pkg. #SOL-HP20 79¢; 22 SWG 69¢

AM-FM TUNER AM-FM TRANSISTORIZED TUNER, 5 TRANSISTOR 4-DIODES WITH AVC AND AFC. CONSISTS OF RF OSCILLATOR, IF, DETECTOR STAGES. REQUIRES 9 VDC. NOT GUARANTEED OPERABLE. UNUSED WITH SCHEMATIC AND HOOKUP DIAGRAM. 4x3x1 BC-CD-34 TUNER \$2 EA.; 3 FOR \$5.

RECENT COMPUTER SURPLUS TRANSISTOR BOARDS BOARD #1: 100+ TRANSISTORS, PLUS DIODES, 1/2 WATT RES., INDUCTORS, TRIMMOTS, CAPS. 6x8". 4 EA. #1, \$3.00 BOARD #2: 50+ TRANS. RES., CAPS., ETC. 5x7", 5 EA. #2, \$1.50 BOARD #3: 150+ SILICON TRANS., ETC. 4x6". 4 EA. #3, \$3.00

1016 E. EUREKA ST. P. O. BOX 1105

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### 4CX300A POWER AMP.

DUAL RF POWER AMPLIFIER, each section has 4CX300A tube in SK710 socket; tubes rated 300 watts dissipation up to 500 Mhz. One side tuned for 166 Mhz, the other 156 Mhz. 5647 diode detects relative power output. Also features BNC connections for input-output, silver-plated strip line inductance, and 27 VDC blower. 13x7x5, 9 lbs sh. #PA-MRC, used \$145; less tubes \$35.



RF AMP & DRIVER for 156 Mhz; has four removable silver-plated cavities each 3.4" lg X 0.6" dia mounted on 11.5x1.6x1.1" silver-plated chassis. Also contains 2/2.5-8 pf differential capacitor, 2.5-8 pf capacitor, and tubes 6360, 3/6AK5, and 6AS6. Requires 27 VDC, 200 VDC, and 350 VDC. First stage is mixer 149.67 + 6 Mhz; schematic included. 5 lbs. #V17-MRC used \$17.

#V12-MRC, same as above except has AGC and 166 Mhz frequency; w/schematic. Used \$16.95

### SIGNAL GENERATORS

AN/URM-25D SIGNAL GENERATOR older version of URM-25F (pg 31), 10 KHz to 50 Mhz AM in nine bands. Output: 0-100K uvols into 50 ohms. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover: 11x14x10, 44 lbs sh wt. Used, repairable, \$115. Checked, \$175.00 ACCESSORIES, available w/purchase of URM-25: MANUAL, \$10. SM-35 antenna simulator, \$5.00 MX-1487 impedance adapter, \$6.00 CN-223 5:1 attenuator \$5. CN-224 10:1, \$6.



AN/URM-26 SIGNAL GENERATOR, older version of URM-26B (pg 33) and similar in appearance to URM-25 above; covers 3 to 405 Mhz AM-CW in six bands. Output: 0.1-50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11x16x10, 42 lbs sh wt. Used, repairable, \$120.00; Checked, \$180.00 MANUAL, partial reproduction, \$10.00 CN-178/URM-26 attenuator, \$7.50 with set. MA-1289/URM-26 adapter, \$8.00 w/set.

### ARC-45 UHF TRANSCEIVER

RT-295/ARC-45 UHF TRANSCEIVER designed for light aircraft and employs 12 preset channels in the 225-399.9 AM Mhz range; 1 watt minimum transmitter output. Receiver IF's: 23.49-24.39 Mhz (1st), 2.98 Mhz (2nd). Audio out 50 mw into 150 ohms. Uses 2/5893 tubes in PA and 5675 as doubler; also 29 other miniature and sub-mini tubes. Requires 150 VDC 115 ma, 300 VDC 130 ma, and 27 VDC 1.7 amps. 5x8 x14, 19 lbs sh. Used \$49.50; Schematic, \$5.



SB-329/ARC-45 CHANNEL SELECTOR BOX for 12 preset channels; has volume. Used \$10 w/set

### 60 SEC TIMER



RHODES 60 SECOND TIMER, mechanical type with bell that signals when time elapsed. Set time from 2-60 sec. 3" dia, plastic case; 2 lb. #56414 NEW \$3.

### RV LIGHT FIXTURE

OVERHEAD LIGHT FIXTURE for RV, van or trailer. Automotive type double contact lamp socket for 6-12-24 VDC lamp (25 W max); also 5x21 diffuser lens. Outer 8x5; fits in 7x3x3 space. 4 lbs. #174-OL NEW \$4



### DC MOTOR

Operates 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"x1/16" dia; o/a 2-7/8" x 1-1/8" dia. #AST-GK26 NEW \$7.95

### 225-400 MHZ RECEIVER

R-482/URR-35 RECEIVER, 225 to 400 Mhz AM and MCW in one continuously tunable band. Dual conversion: 18.6 Mhz 1st IF, 1.775 Mhz 2nd. Provisions for panadapter with 600 KHz bandwidth. Antenna input impedance: 50 ohms. Audio output: 600 mw into 600 ohms. Power required: 115 VAC 60 Hz. 8x17x19, 65 lbs sh wt. Used-reparable \$90. Checked, \$145. MANUAL, partial repro, \$10.00



### TELEGRAPH KEYS

J-45 LEG IRON w/J-37 KEY with adjustable contacts. Includes 7 1/2" CD-201 cord w/PL-55 plug. 4 lbs sh. Used, \$12.00 LEG IRON only, \$4.75

CANADIAN #48 KEY (left), ball-style button; toggle switch for Send-Receive. 5x2x2 base, canvas leg straps, and 5' cord with PL-68 plug. 4 lbs sh. #CAN-48, unused, \$8.50



### 10-44.880 MHZ ANALYZER



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" (5ADP7) CRT display. Resolution ± 3 db points: 20 KHz all frequencies. Dispersion: 500 KHz-5 Mhz adjustable (10-55 Mhz); 500 KHz to 25 Mhz (55 Mhz up). Spectrum calibrator 160 Mhz center freq ±12.5 Mhz. Sensitivity: as low as -63 dbm (10-150 Mhz); -40 dbm (2.0 Ghz up). RF attenuation 100 db uncalibrated internal 10 Mhz-12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17x19x26; 180 lbs sh, 145 lbs net. Used-reparable, \$495.00; MANUAL, partial repro, \$15. Some ACCESSORIES available-write.

### PRD-1 DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER 100 KHz to 30 Mhz AM-CW-ICW in seven bands; FM over 12.5-30 Mhz. 34 KHz bandwidth. 100 KHz crystal calibrator for bands 1-2-3 (100-1200 KHz), 1300 KHz bands 4-5 (1.14-5.8 Mhz), and 4000 KHz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifiers using two 6AK5's. Also 7/104, 1R5, 2/1US, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 16x13x13; 64 lbs net, 75 lbs sh wt. Used, repairable, \$105.00 MANUAL, partial repro, \$12. Schematic only \$3 AS-536 & AT-301 LOOP ANTENNA, \$20 w/set.



NY-79/PRD-1 DYNAMOTOR POWER-SUPPLY, fits and plugs into bottom of R-395 and provides all the voltages for the receiver from 24 VDC 7 amp input 10x14x17, 38 lbs sh. Used, \$35 Power input connector \$3 w/set

MT-1283/PRD-1 Jeep mount, 75 lbs, \$22 w/set.

MX-1454/PRD-1 SURVEYOR'S COMPASS, 4" dia in leather case; & Easel. Used \$25 w/set.

\*\*\*\*\*  
AN/PRD-1 DIRECTION FINDER SYSTEM in excellent little-used or unused condition. Includes: R-395, NY-79, AS-536, AT-301, MT-870 receiver tripod, battery cable, partial repro of manual in wood transit cases CY-949, CY-950, and CY-954. 275 lbs sh wt. Excellent, \$245.00



### PRT-4 XMITTER

AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two pre-set channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in microphone; clips onto belt or pocket. Requires 6 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna, crystals, battery box. 2x4x2, 2 lbs. \$16.95